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November 22, 2005, 18:59:02; Search time 188 Seconds (without alignments)
23.371 Million cell updates/sec
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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
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Listing first 45 summaries
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

	no itains	Description	Aaw81137 Collagen-	_	Aay53598 Collagen	Aay69642 Extracell	Aab68865 Von Wille	Aab68988 Von Wille	Adu00345 Truncated	Adv89959 Collagen	Aaw88511 Collagen	Aaw88510 Collagen	Aay53600 Collagen		Aaw89395 Modified	Aaw08182 TGF-beta	Aaw08178 TGF-beta	Aaw08172 Collagen	Aaw84202 Peptide c	Aaw08183 TGF-beta	Aaw08184 TGF-beta	Aaw08180 TGF-beta	Aaw08179 TGF-beta	Adv89958 Collagen	Adu00344 von Wille	Aab68989 Von Wille
SUMMARIES	T.		AAW81137	AAY78912	AAY53598	AAY69642	AAB68865	AAB68988	ADU00345	ADV89959	AAW88511	AAW88510	AAY53600	ADU00348	AAW89395	AAW08182	AAW08178	AAW08172	AAW84202	AAW08183	AAW08184	AAW08180	AAW08179	ADV89958	ADU00344	AAB68989
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_	Aaw54347 Canine vo	Aay70557 Canine vo	Adr59181 Collagen-	Abo60809 Klebsiell	Aag55414 Arabidops	Ady65948 S. manson	Abo69750 Pseudomon	Ada36063 Acinetoba	Aau57258 Propionib	Abm53777 Propionib	Adk47515 Streptoco	Abm64633 Propionib	Ads43623 Bacterial	Aar86290 Protamino	Adj87481 S. plymut	s,		Aar86287 Protamino	Adj87447 Protamino	Adt49879 Human VWF
ADV89960	AAW54347	AAY70557	ADR59181	ABO60809	AAG55414	ADY65948	ABO69750	ADA36063	AAU57258	ABM53777	ADK47515	ABM64633	ADS43623	AAR86290	ADJ87481	ADJ87457	ADJ87453	AAR86287	ADJ87447	ADT49879
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25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45

ALIGNMENTS

New vector particles targetted to extracellular matrix components contain modified viral protein including binding region for the component, used for, e.g. gene therapy. Receptor binding region; ecotropic; gp70; retrovirus; envelope; modified viral surface protein; moloney murine leukaemia virus; extracellular matrix component; gene therapy; collagen. Collagen-binding domain of von Willebrand Factor. Starnes VA; Gordon EM, Anderson WF, AAW81137 standard; peptide; 10 AA. (UYSC-) UNIV SOUTHERN CALIFORNIA. 97US-00837223. 98WO-US006936. 05-MAR-1999 (first entry) WPI; 1998-594474/50. N-PSDB; AAV68321. WO9844938-A1. Homo sapiens 08-APR-1998; 10-APR-1997; 15-OCT-1998. AAW81137; Hall FL, RESULT 1 AAW81137

Claim 6; Page 45; 73pp; English.

The present invention describes a vector particle (A) which is targeted to an extracellular matrix (ECM) component by modifying a viral surface protein (VSP) to include a target polypeptide (TP) that includes a binding region for the ECM component. The present sequence represents the specifically claimed collagen-binding domain of von Willebrand Factor from the present invention. (A) may also include a sequence encoding a therapeutic agent (C), and are then used to express (C) in an animal (gene therapy), specifically in cells located at a site (of injury) where ECM components are exposed. Particular applications are in e.g. cardiovascular disease, liver cirrhosis, thrombosis, vascular or

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         This sequence represents the collagen binding domain (CBD) peptide sequence from bovine von Willebrand factor (wWP). Von Willebrand factor targets platelet aggregates to vascular lesions, and is involved in the recognition of exposed vascular collagen. The peptide is used in a fusion polypeptide which comprises a collagen binding domain and an angiogenesis modulating agent (e.g. vascular endothelial growth factor VEGF). The fusion polypeptides and nucleic acids can be used for locally altering circulation in a subject which may have a disorder such as cardiovascular disease, an ulcerative lesion, an inflammatory lesion, a tumour or arthritis. They can be used for treating myocardial infarction and peripheral artery disease, post-balloon angioplasty vascular restenosis, stroke, asthma, diabetic retinopathy or wound healing or genetic defects. They can also be used for preparing tissue grafts which can be used to repair or replace damaged tissue
ulcerative lesions, inflammation, arthritis and tumours, also to promote wound healing. (A) may also be used in animal studies of gene therapy. Targeting to ECM concentrates (A) at sites of tissue injury, improving specificity and/or local concentration
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Collagen binding domain, von Willebrand factor; cardiovascular disease, anglogenesis modulatory agent, ulcerative lesion; inflammatory lesion; tumour; arthritis; myocardial infarction; peripheral artery disease; stroke; asthma; diabetic retinopathy; wound healing; tissue graft.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New fusion polypeptides comprising a collagen binding domain and an angiogenesis modulating agent, useful for treating e.g. cardiovascular disease, ulcers, inflammation, tumors, arthritis or grafts.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Collagen binding domain (CBD) of von Willebrand factor (vWF).
                                                                                                                                   100.0%; Score 55; DB 2; Length 10; 100.0%; Pred. No. 0.0023; tive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Starnes VA, Anderson WF,
                                                                                                                                                                                                                                                                                                                                                     AAY78912 standard; peptide; 10 AA.
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                                                                                                                                     Query Match
Best Local Similarity
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                                                                                               Sequence ID AA;
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The invention relates to novel retroviral vector in which the ecotropic receptor binding region of the gp70 envelope protein (AAY55594) from a retroviral vector, preferably one based on the Moloney murine leukaemia virus (MMLV) is deleted or replaced by a non-retroviral sequence.

Coptionally the hypervariable polyproline region of the gp70 protein (AAY55595) may also be deleted or substituted. The modified retroviral vectors are used to introduce mucleic acid into eukaryotic cells, particularly for gene therapy of a very wide range of conditions, e.g. tumours, severe combined immune deficiency, haemophilia, diabetes, Alzheimer's and Parkinson's diseases. The vectors can also be used to evaluate gene therapy methods in animal models, or to transduce cells for recombinant production of proteins. The envelope proteins are also useful as components of proteoliposomes for gene transfer or drug delivery. This peptide can be inserted into the retroviral vector in order to target the vector to cells expressing an extracellular matrix
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Retrovixal vector containing both natural and modified envelope protein, to provide specific targeting and infectivity, useful in gene therapy.
                                                                                                                                                                                                                                                                                            cardiovascular; retroviral vector; ecotropic receptor binding region; gp70; envelope; hypervariable; polyproline; gene therapy; tumour; severe combined immune deficiency; haemophilia; diabetes; animal model; Alzheimer's disease; Parkinson's disease; cystic fibrosis; recombinant; muscular dystrophy; cardiovascular disease; proteoliposome; ligand.
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                                                                                                                                                                                                                                        Collagen binding domain from Von Willebrand factor.
                                                                                                                              AAY53598 standard; protein; 10 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Anderson WF
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1 WREPSFMALS
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les 10; Conserv
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ch 100.0%; Score 55; DB 3; Length 10; 1 Similarity 100.0%; Pred. No. 0.0023; 10; Conservative 0; Mismatches 0; Indels

Best Local Similarity Matches 10; Conserv

Query Match

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26-APR-2001 (first entry)
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Best Local Similarity 100.
Matches 10; Conservative
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                                                                                                                                                                                                                         20-JUL-1999;
                                                                gene therapy
                                                                                              Unidentified
                                                                                                                                                           25-JAN-2001
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                                                                                                                                                                                                                                                                                                                                                                                                       factor 2.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The invention relates to isolated peptides derived from the cytoplasmic tail and/or the membrane-spanning region of a viral envelope protein.

Such peptides form an amphibilite structure and have membrane destabilising activity, facilitating the entry of viral particles into cells and the efficient formation of viral particles. Accordingly, the peptides may be attached to the membrane of an enveloped virus via its incorporation (along with a targetting polypeptide) into an artificial viral envelope protein. The membrane destabilising peptides of the invention may be used for preparing a viral or synthetic vector for the targetting and delivery of a therapeutic agent to an animal e.g., for gene therapy, or for anti-tumour therapy. The amphiphilic peptides reduce, inhibit or prevent the growth of a cell, virus, or virally infected cell and therefore may be used as antibiotics, anti-viral envel in the content of a cell, virus, or virally a terilant or prevent also as preservatives and also as preservatives and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                               amphiphilic peptides used in developing modified enveloped viruses use in treating diseases associated with exposed extracellular matrix
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 sterilants. Sequences AAY66619-Y69643 represent examples of targetting peptides which may be used in the invention
                                                                                                                                                      Targetting peptide; membrane destabilisation; viral envelope protein; gene therapy vector; extracellular matrix.
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                                                                                                                            Extracellular matrix targetting peptide #1
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Disclosure, Page 27; 83pp; English.
                               AAY69642 standard; peptide; 10 AA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  component, in gene therapy.
                                                                                                                                                                                                                                                                                                                                                                                                    Rozenberg Y, Anderson WF;
                                                                                            (first entry)
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                                                                                                                                                                                                        Unidentified
                                                                                                                                                                                                                                                                                                     08-JUL-1999;
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                                                             AAY69642;
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AAB68865
ID AAB6
XX
AC AAB6
XX
DT 19-A
XX
XX
XX
             AAY69642
RESULT 4
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The present sequence is part of a fusion polypeptide which acts as a cell proliferation-modulating agent in a method for identifying a pre-
mesenchymal, pre-haematopoietic stem cell from a appulation of cells. The method comprises obtaining a population of cells from an animal species, culturing the cells in vitro, contacting the cells with a cell proliferation-modulating agent that induces Osf2 expression, and identifying a pre-mesenchymal and pre-haematopoietic stem cell that expresses Osf2. The identified cells are useful for ameliorating a connective tissue-related disorder, blood tissue-related disorder or for promoting bone marrow tissue regeneration. The blood tissue and connective tissue-related disorders are muscular dystrophy, lipid storage disorders, skeletal disorders or bone marrow disorders. The cells are also useful for promoting engrathem to mesenchymal and/or caplace or supplement the corresponding cell type in a patient, or to coat implants, thus acting as a barrier between the implant and the coat implants, thus acting as a barrier between the implant and the coat implants, thus acting as a barrier between the implant and the coat implants in which blood or connective tissue requires repair. The cells may be genetically modified to prevent and/or treat any conditions in which blood or connective tissue requires repair.

The present sequence is part of a fusion polypeptide which also comprises a present sequence or supplement to a sugmentation and are used in gene therapy techniques.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Identifying pre-mesenchymal, pre-hematopoietic progenitor stem cells from a population of cells, for use in treating e.g. a blood tissue related disorder, involves identifying cells expressing osteoblast specific
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
Von Willebrand factor; collagen-binding domain; Osf2; osteoblast specific factor 2; vulnerary; muscular; gene therapy; pre-mesenchymal; pre-haematopoietic stem cell; muscular dystrophy; lipid storage disorder; skeletal disorder; bone marrow disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Collagen-binding domain; wound healing; epithelial tissue; EGF;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         100.0%; Score 55; DB 4; Lo
100.0%; Pred. No. 0.0023;
ive 0; Mismatches 0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 11, Page 76; 92pp; English.
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                                                                                                                                                                                                                                                             The present invention describes a fusion protein comprising a collagen-binding domain and an epithelial cell proliferation modulating agent such as epidermal growth factor (EGF). This can be used to target the agent to specific cells where it can then promote cell differentiation and encourage wound healing. This is useful not only in the promotion of wound healing following surgery, irradiation, infection and burning, but also in the treatment of arthritis, osteoporosis and other skeletal disorders, and in tissue engineering. Nucleic acids encoding the proteins
                                                                                                                                                                                                 New epidermal growth factor collagen binding domain fusion polypeptides, useful for wound healing, promoting repair of colonic lesions, modulating epithelial cell proliferation or tissue regeneration.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    D2 domain; von Willebrand factor; collagen; binding peptide; targeted delivery; vector; 4070A; amphotrophic; envelope protein; viral; gag-pol; drug reselstance; SV40; origin of replication; long terminal repeat; LTR; retroviral; packaging sequence; CMV; promoter; large T antigen; neoplastic disorder.
epidermal growth factor; cell proliferation; arthritis; osteoporosis; burn; tissue engineering; gene therapy.
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                                                                                                                                                                                                                                                                                                                                                                                        100.0%; Score 55; DB 4; Length 10; 100.0%; Pred. No. 0.0023; tive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Truncated von Willebrand factor domain D2.
                                                                                                                                                         Hall FL, Nimni M, Gordon EM, Beart RW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADU00345 standard; peptide; 10 AA.
                                                                                                                                     (UYSC-) UNIV SOUTHERN CALIFORNIA,
                                                                                                                                                                                                                                          Claim 4; Page 63; 81pp; English
                                                                                            21-JUL-2000; 2000WO-US020055.
                                                                                                                 99US-0145488P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  21-APR-2003; 2003US-0464571P.
                                                                                                                                                                                                                                                                                                                                                can be used in gene therapy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
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                                                                                                                                                                            WPI; 2001-182717/18.
                                                                                                                                                                                                                                                                                                                                                                                                   Local Similarity
les 10; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WO2004093810-A2
                                                                                                                                                                                                                                                                                                                                                                     Sequence 10 AA;
                                                   WO200107059-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens.
Synthetic.
                                Unidentified
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                                                                         01-FEB-2001.
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                                                                                                                                                                                                                                                                                                                                                                                          Query Match
                                                                                                                                                                                                                                                                                                                                                                                                      Best Loc
Matches
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This sequence represents a truncated D2 domain from von Willebrand

C factor. This peptide was used as a collagen binding peptide in the method

C factor. This peptide was used as a collagen binding peptide in the method

CC of the invention. The method of the invention for producer cell with

C first, second and third plasmids; culturing the producer cells under

C conditions that allow targeted delivery vector production and release

into the supernatant of the culture; isolating and introducing the

C conditions that allow targeted delivery vectors. The first

C particles; and collecting the targeted delivery vectors. The first

C particles; and collecting the targeted delivery vectors. The first

C plasmid comprises a nucleic acid sequence encoding the 4070A amphorrophic

c nucleic acid sequence is operably linked to a promoter and encoding a nucleic acid sequence operably linked to a promoter

CC plasmid comprises a nucleic acid sequence operably linked to a promoter

CC mucleic acid sequence cell, and an SV40 origin of replication.

CT he third plasmid comprises a heterologous mucleic acid sequence operably

CC Inked to a promoter, where the sequence encodes a diagnostic or

CT herapeutic polypeptide, 5' and 3' long terminal repeat sequence operably

CC nucleic acid sequence operably linked to a promoter.

CC mucleic acid sequence operably linked to a promoter.

CC mucleic acid sequence operably linked to a promoter.

CC mucleic acid sequence operably linked to a promoter.

CC mucleic acid sequence operably linked to a promoter.

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                                                                                                                                                                                                                                                                                               Producing a targeted delivery vector for treating a neoplasm by culturing the producer cells transfently transfected with first, second and third plasmids, isolating and introducing the supernatant into a closed loop manifold system.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
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100.0%; Score 55; DB 8; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0023;
Matches 10; Conservative 0; Mismatches 0; Indel8
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(EPEI-) EPEIUS BIOTECHNOLOGIES INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADV89959 standard; peptide; 10 AA.
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                                                                                                     Hall FL;
                                                                                                                                                                                               WPI; 2004-775863/76
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                                                                                                          Gordon EM,
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Life invention describes a composition (A) composition of Ligand (1), where (A) has an enantiomeric excess of greater than 50% of an (R) or (S) isomer at the 2-position of (1). Also described are: a composition (B) comprising a metal chelate of formula (2) and its salt and having an enantiomeric excess of greater than 50% of an (R) or (S) isomer of the chelate at the 2 position; a magnetic resonance imaging (KMI) agent comprising a metal chalate of remula (S) and optionally one or more Target Binding Moieties (TBM'S); a composition (D) comprising an organic chelating (B) and (4) where (D) has an enantiomeric excess of greater than 50% of an (R) or (S) isomer at the 2 position of the precursor; preparation of organic chelating ligand precursor; or method for converting an organic chelating ligand precursor to a metal chelate; a method for converting an organic chelating ligand of formula (C) and (S) isomer at the 2 position (E) comprising an activated ester of an ental chelate; a composition (E) comprising an activated ester of an enantiomeric excess of greater than 50% of an (R) or (S) isomer at the 2 position of the chelating ligand of formula (C) and (S), where (F) has an enantiomeric excess of greater than 50% of an (R) or (S) isomer at the 2 position of the chelating ligand; and composition (F) comprising an activated ester of an enal chelate of the organic chelating ligands and war contrast agents can be used to prepare targeted WRI contrast agents for imaging targeted ester metal chelate. The organic chelating ligands can be synthesized in high yield shown in the vasculature. The optical somers of the organic chelating ligands can be synthesized in high yield shown in the same of the organic chelating ligands can be synthesized in high yield warning at the angent is a the activated ester of and in high optical purity using inexpensive processes from readily and in the parting material which optical purity using inexpensive precesses from readily and in the parting and the parting and the parting and the p
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                                                                                                                                                                                 Composition useful for preparing targeted magnetic resonance imaging contrast agents for imaging targeted areas of the body e.g. thrombi and atherosclerotic lesions, comprises an organic chelating ligand or a metal
                                                                                                                                                                                                                                                                                                                                                                                                                                                            The invention describes a composition (A) comprising an organic chelating
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
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        Levy S;
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    Zhou KL,
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                                                                                                                                                                                                                                                                                                                                                                                        Disclosure; SEQ ID NO 10; 82pp; English.
Kalageropoulos S, Greenfield M;
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Best Local Similarity 100.
Matches 10; Conservative
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Human herpesvirus 5.
                                                                                                             WPI; 2005-101277/11
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98WO-US009718.

13-MAY-1998;

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                                                                                                                                             New retroviral vector particle - has envelope polypeptide modified in the hypervariable polyproline region to enable cell targetting.
                                                                                                                                                                                                                            The present invention describes a retroviral vector particle (RVP1), having a modified retroviral envelope polypeptide which includes the hypervariable polyproline (HP) region modified to include a heterologous protein or peptide. Retroviral vectors made targetable by modification of the HP region enable the delivery of desired genes to a variety of cell types. Unlike prior art modifications in the receptor binding region, the particle does not disrupt envelope structure to impair folding, processing, and incorporation of the envelope protein. The present sequence represents a peptide from an example of the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New retroviral vector particle - has envelope polypeptide modified in the hypervariable polyproline region to enable cell targetting.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The present invention describes a retroviral vector particle (RVP1), having a modified retroviral envelope polypeptide which includes the hypervariable polyproline (HP) region modified to include a heterologous
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Hypervariable polyproline region; amphotropic gp70 protein; human cytomegalovirus; hCMV; retrovirus; envelope protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                    100.0%; Score 55; DB 2; Length 16; 100.0%; Pred. No. 0.0037; ive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Collagen binding domain insertion for pEA insert 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example 6; Page 38; 79pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAW88510 standard; peptide; 16 AA.
                                                                                                                                                                                                Example 6; Page 38; 79pp; English
                                               (UYSC-) UNIV SOUTHERN CALIFORNIA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (UYSC-) UNIV SOUTHERN CALIFORNIA.
               97US-00856074.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                    10; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 WREPSFMALS 10
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WREPSFMALS 13
                                                                                Anderson WF, Wu BW;
                                                                                                                WPI; 1999-059696/05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human herpesvirus 5.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Anderson WF, Wu BW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 1999-059696/05.
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Best_Local Similarity
Matches 10; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 16 AA;
               14-MAY-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAW88510;
                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
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Gaps

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Length 16;

Score 55; DB 3; Length Lo Pred. No. 0.0037;

100.0%;

Local Similarity 100 nes 10; Conservative

Sequence 16 AA;

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Query Match Matches

0; Mismatches

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The invention relates to novel retroviral vector in which the ecotropic receptor binding region of the gp70 envelope protein (AAY53594) from a receptor binding region of the gp70 envelope protein (AAY53594) from a virus (WMLV) is deleted or replaced by a non-retroviral sequence. Optionally the hypervariable polyproline region of the gp70 protein (AAY53595) may also be deleted or substituted. The modified retroviral certors are used to introduce nucleic acid into eukaryotic cells, particularly for gene therapy of a very wide range of conditions, e.g. tumours, severe combined immune deficiency, haemophilia, diabetes, C Alzhaimer's and Parkinson's diseases, cystic fibrosis, muscular dystrophy, cardiovascular disease. The vectors can also be used to evaluate gene therapy methods in animal models, or to transduce cells for recombinant production of proteins. The envelope proteins are also useful as components of proteins for gene transfer or drug delivery. This peptide represents a collagen binding domain peptide which can be peptide represents a collagen binding domain petide which can be
                                                                                                                                                                                                                                                                                                                                                                                                                            ô
           protein or peptide. Retroviral vectors made targetable by modification of the HP region enable the delivery of desired genes to a variety of cell types. Unlike prior art modifications in the receptor binding region, the particle does not disrupt envelope structure to impair folding, processing, and incorporation of the envelope protein. The present sequence represents a peptide from an example of the present invention
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Antitumour; anti-haemophilia; antidiabetic; anti-neurodegeneration; cardiovascular; retroviral vector; ecotropic receptor binding region; app70; envelope; hypervariable; polyproline; gene therapy; tumour; severe combined immune deficiency; haemophilia; diabetes; animal model; Alzheimer's disease; Parkinson's disease; cystic fibrosis; recombinant; muscular dystrophy; cardiovascular disease; proteoliposome; ligand.
                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                             100.0%; Score 55; DB 2; Length 16; 100.0%; Pred. No. 0.0037; tive 0; Mismatches 0; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAY53600 standard; peptide; 16 AA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Collagen binding domain peptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             98US-00069398.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 WREPSFMALS 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gordon EM,
or peptide.
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                                                                                                                                                                                                                                                                                                                                                                                   Local Similarity
                                                                                                                                                                                                                                                                            Sequence 16 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WO9955893-A1
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                                                                                                                                                                                                                                                                                                                                                    Query Match
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AAY53600

AAY53600

AAY53600

AAY53600

DT 15-MA

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XX

XX

AAY51

XX

AAY53600

BE Colla

XX

AAY5001

XX

AAY5001

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cells expressing an extracellular matrix

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was used in the method of the invention for producing a targeted delivery vector. The method comprises: transiently transfecting a producer cells with first, second and third plasmids; culturing the producer cells under conditions that allow targeted delivery vector production and release into the supernatant of the culture; isolating and introducing the supernatant into a closed loop manifold system for collecting the viral particles; and collecting the targeted delivery vectors. The first plasmid comprises a nucleic acid sequence encoding the 4070A amphotrophic plasmid comprises a nucleic acid sequence encoding the 4070A amphotrophic convelope protein modified to contain a collagen binding domain, where the nucleic acid sequence operably linked to a promoter. The second plasmid comprises a nucleic acid sequence operably linked to a promoter of the third plasmid comprises a heterologous nucleic acid sequence operably. The third plasmid comprises a heterologous nucleic acid sequence operably linked to a promoter, where the sequence encodes a diagnostic or therapeutic polypeptide that confers and 3' long terminal repeat sequence operably a retroviral packaging sequence, and 3' long terminal repeat sequence coll, a retroviral packaging sequence, and 3' long terminal repeat sequence coll, a retroviral packaging sequence, and 3' long terminal confers and sequence coll, and sequence operably linked to a promoter, where the sequence coll, and sydo origin of replication, where the producer cell, as a human cell, and sydo origin of replication, where the producer cell, as a human cell, that expresses SV40 large T antigen. The method is useful in producing a
                                                                                                                                                                                                                                                                                                                                                        D2 domain; von Willebrand factor; collagen; binding peptide; targeted delivery; vector; 4070A; amphotrophic; envelope protein; viral; gag-pol; drug resistance; SV40; origin of replication; long terminal repeat; LTR; retroviral; packaging sequence; CWV; promoter; large T antigen; neoplastic disorder.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Producing a targeted delivery vector for treating a neoplasm by culturing the producer cells transiently transfected with first, second and third plasmids, isolating and introducing the supernatant into a closed loop
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              This sequence represents a minimal collagen binding peptide. This peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 1; Page 49; 103pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (EPEI-) EPEIUS BIOTECHNOLOGIES INC.
                                                                                                                                                                       ADU00348 standard; peptide; 16 AA.
                                                                                                                                                                                                                                                                                                                Minimal collagen binding peptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              21-APR-2004; 2004WO-US012302.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            21-APR-2003; 2003US-0464571P
                                                                                                                                                                                                                                                                    (first entry)
10
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                                                4 WREPSEMALS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2004-775863/76.
1 WREPSFMALS
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                                                                                                                                                                                                                                                                       27-JAN-2005
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Synthetic.
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Gaps

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0; Indels

100.0%; Score 55; DB 2; 100.0%; Pred. No. 0.067; iive 0; Mismatches 0

10

Length 248;

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specificity and/or local concentration
                                                                                                                     Query Match
Best Local Similarity 100.
Matches 10; Conservative
                                                                                                                                                                                                                                                                                        22 WREPSFMALS 31
                                                                                                                                                                                                                                                        1 WREPSFMALS
                                                                         Sequence 248 AA;
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                                                                                                                                                                                        Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Receptor binding region; ecotropic; gp70; retrovirus; envelope; modified viral surface protein; moloney murine leukaemia virus; extracellular matrix component; gene therapy; collagen.
                                                                                                                                                                                           ö
targeted delivery vector for treating a neoplastic disorder.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Modified receptor binding region of ecotropic gp70 protein.
                                                                                                                     100.0%; Score 55; DB 8; Length 16; 100.0%; Pred. No. 0.0037; 1.ve 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           "targeting polypeptide insertion"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Anderson WF, Starnes VA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAW89395 standard; protein; 248 AA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Moloney murine leukemia virus.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
                                                                                                                                                  Local Similarity 100.
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/note= "
                                                                                                                                                                                                                                              1 WREPSFMALS 10
                                                                                                                                                                                                                                                                                     WREPSFMALS 14
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Misc-difference
                                                                  Sequence 16 AA;
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Disulfide-bond
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Disulfide-bond
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                                                                                                                        Query Match
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                                                                                                                                                                                     Matches
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XX AAW8
XXX AAW8
XXX AAW8
XXX Modi O5-N
XXX Modi O5-N
XXX Modi O5-N
XXX Modi O6-N
XXX MOdi 
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A novel transforming growth factor-beta (TGF-beta) fusion protein comprises a purification tag and a TGF active fragment. Additionally, the fusion protein may comprise proteinase-sensitive linker sites and binding domain so the protein sequence may contain some or all of the following elements: purification tag:proteinase site:ECM binding site: proteinase site:TGF-beta. The present sequence represents a fusion protein made up from a purification tag (AAW18225), a proteinase site (AAW08159), an extracellular matrix binding site (AAW08172) and a TGF active fragment (AAW08131). TGF-beta promotes wound healing, and the fusion protein can be used to reduce surgery recovery time and in the preparation of artificial skin. The inclusion of a purification tag facilitates
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Prepn. of transforming growth factor-beta fusion protein - useful to reduce surgery recovery time and to prepare artificial skin.
                                                                                                                 Transforming growth factor-beta fusion protein; wound healing; artificial skin; surgery recovery time.
                                                                                                                                                                                                                                                                             11. .19
/label= Extracellular_matrix_binding_site
20. .131
                                                                                                                                                                                                                                                                                                         20. .131
/label= TGF-betal_active_fragment
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Cheung DT;
                                                                                                                                                                                                                          l. .6
/label= Purification_tag
                                                                                                                                                                                                                                                    7. .10
/label= Proteinase_site
                                                                                      TGF-beta fusion protein 22:13:20:30.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Wu L,
                                                                                                                                                                                                         Location/Qualifiers
AAW08182 standard; peptide; 131 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Disclosure, Page, 59pp, English.
                                                                                                                                                                                                                                                                                                                                                                                                                                           95US-00470837.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Tuan T,
                                                                                                                                                                                                                                                                                                                                                                                                              96WO-US008973
                                                        26-AUG-1997 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Hall FL, Nimni ME,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 1997-043065/04
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CHEUNG D T.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NIMNI M E.
TUAN T.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     HALL/) HALL F L.
                                                                                                                                                               Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                              05-JUN-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                         06-JUN-1995;
                                                                                                                                                                                                                                                                                                                                                     WO9639430-A1
                                                                                                                                                                                                                                                                                                                                                                                12-DEC-1996.
                                                                                                                                                                           Synthetic
                              AAW08182;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (NIMN/)
(TUAN/)
(WULL/)
(CHEU/)
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purification of the fusion protein. The proteinase site is included to permit cleavage and release of the purification tag after purification if desired. The extracellular matrix binding site facilitates delivery of the fusion protein to the desired site of action. Delivery of the TGP-beta to the site to be treated reduces the amount of TGP-beta required to be administered to be effective and reduces the concentration of circulating TGP-beta which may result in undesirable effects. N.B. The present sequence is does not appear in the specification, but is derived from the sequences mentioned above
                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Prepn. of transforming growth factor-beta fusion protein - useful reduce surgery recovery time and to prepare artificial skin.
                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                              Transforming growth factor-beta fusion protein; wound healing; artificial skin; surgery recovery time.
                                                                                                                                         Score 52; DB 2; Length 131;
Pred. No. 0.12;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                13. .21
/label=_Extracellular_matrix_binding_site
                                                                                                                                                                0; Indels
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/label= TGF-betal_active_fragment
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                                                                                                                                                                   1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                    1. .6
/label= Purification_tag
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          7. .12
/label= Proteinase_site
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                                                                                                                                                                                                                                                                                                                                           TGF-beta fusion protein 22:15:20:30
                                                                                                                                                                                                                                                                                                                                                                                                                                      Location/Qualifiers
                                                                                                                                                                                                                                                                       AAW08178 standard; peptide; 133 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 1; Page; 59pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Tuan T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           95US-00470837
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     96WO-US008973
                                                                                                                                            94.5%;
                                                                                                                                                                                                                                                                                                                     26-AUG-1997 (first entry)
                                                                                                                                                                   9; Conservative
                                                                                                                                                                                          1 WREPSFMALS 10
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TUAN T.
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                                                                                                                                             Query Match
Best Local Similarity
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                                                                                                                        Sequence 131 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                      sapiens.
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A novel transforming growth factor-beta (TGF-beta) fusion protein comprises a purification tag and a TGF active fragment. Additionally, the fusion protein may comprise proteinase-sensitive linker sites and binding

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cc domain so the protein sequence may contain some or all of the following elements: purification tag:proteinase site:ECM binding site: proteinase site:TGF-beta. The present sequence represents a fusion protein made up from a purification tag (AAM18225), a proteinase site (AAM08170), an carracellular matrix binding site (AAM08172) and a TGF active fragment CC (AAM08173). TGF-beta promotes wound healing, and the fusion protein can be used to reduce surgery recovery time and in the preparation of artificial skin. The inclusion of a purification tag facilitates CC principles of the fusion protein. The proteinase site is included to permit cleavage and release of the purification tag after purification if comparing to the desired site of action. Delivery of the fusion protein to the desired site of action. Delivery of the fusion protein to the desired site of action. Delivery of the fusion protein to the desired site of action. Delivery of the fusion protein to the desired after purification of TGF-beta required to be administered to be effective and reduces the amount of TGF-beta required to circulating TGF-beta which may result in undesirable effects. N.B. The correctines mentioned above
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Job time : 191 secs
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Matches 9; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 133 AA;
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                        8$999999999999988%&
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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
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OM protein - protein search, using sw model

Run on:

November 22, 2005, 19:08:53 ; Search time 39 Seconds (without alignments) 24.671 Million cell updates/sec

1 WREPSFMALS 10 US-10-733-852-1 55 Perfect score: ritle:

Scoring table: Sequence:

BLOSUM62 Gapop 10.0 , Gapext 0.5

283416 seqs, 96216763 residues Searched:

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database

PIR 80:*
!: pir1:*
!: pir2:*
!: pir3:*
!: pir4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

hypothetical profe hypothetical prote von Willebrand fac hypothetical prote glutamyl-ERNA synt glutamyl-ERNA synt NADPH-ferrinemopro hypothetical prote large tegument pro protein F21H11.2 [zonadhesin - mouse probable transposa probable heme A fa heme A farnesyltra hypothetical prote differentiation-st cytochrome c-type cytochrome c-type two-component resp conserved hypothet hypothetical prote hypothetical prote probable heme A fa hypothetical prote heme A farnesyltra hypothetical prote ethanolaminephosph von Willebrand fac Description SUMMARIES A34102 C83263 T05927 AB2032 S48967 T41260 S75694 A974173 A97412 A873106 A873106 S38427 H36812 T42215 T42215 T10875 T10875 A12162 A12162 A27038 A12163 A27038 DB Query Match Length 2813 318 318 318 2813 2813 2813 2813 2010 202 204 200 200 200 200 200 Score Result

cytochrome caa3 ox	ABC transporter, p	L-sorbosone dehydr	argininosuccinate	probable transport	MFS permease (impo	potassium uptake p	hypothetical prote	hypothetical prote	proteophosphoglyca	brefeldin a resist	hypothetical prote	ATP-binding multid	hypothetical prote	RNA-directed RNA p	1b protein - canin
H83976	A98323	F75417	H72210	C97376	A12593	G82037	T01442	\$77086	T30608	S52239	T52010	T43022	B72702	S24285	PQ0481
0	~	~	7	~	N	~	N	~	~	~	~	~	~	7	~
312	319	398	409	440	440	485	683	861	1173	1530	1530	1562	130	131	168
61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	60.09	60.09	0.09
34	34	34	34	34	34	34	34	34	34	34	34	34	33	33	33

ALIGNMENTS

African number: 314768, MUD:91192039; PMID:177363 African number: 314768 African number: 314768 African number: 314768 African number: 3152-77,112-149 «FUJ> African number: 3152-77,112-149 «FUJ> African number: 3152-77,112-149 «FUJ> African number: 31540, MUD:91170224; PMID:2005098 African number: A39540; MUD:91170224; PMID:20050177ADA African number: A39540; MUD:91170204; PMID:140000177ADA African number: A39540; MUD:91170204; PMID:1420316 African number: S27196; MUD:93041938; PMID:1420316 African number: S27196; MUD:93041938; PMID:1420316 African number: S27196; MUD:93041938; PMID:1420316 African number: S36600 Afric	RESULT 1 A34102 von Willebrand fact C; Species: Bos prim C; Date: 30-Mar-1990 C; Accession: A34102 R; Takagi, U; Kasah U; Biol: Chem. 264, A; Title: A collagen A; Reference number: A; Accession: A34102 A; Status: prelimina A; Molecule type: pr A; Residues: 1-21; 78 A; Cross-references:	mp-4 * moo
fact	R/FUjisawa R/FUjisawa R/Title: W A/Reference A/Accession A/Status: I A/Molecule: A/Residues:	R.F. Wijtawa, T.: Takagi, J.; Sekiya, F.; Goto, A.; Miake, F.; Salto, Y. Br. J. Blochem. 196, 673-677, 1991 A.Title: Monoclonal antibodises that inhibit binding of propolypeptide of von Willebrand ! A.Accession: S14768 A.Accession: S14768 A.Status: preliminary A.Status: preliminary A.Molecule type: protein A.Kesidues: 22-51;52-77;112-149 <fuj> A.Kesidues: 22-51;52-77;112-149 <fuj> B.A.Cross-forences: UNIPARC: UPI0000177ADB; UNIPARC: UPI0000177ADB</fuj></fuj>
A; Reference number: S27196; MUID:93041938; PMID:1420316 A; Reference number: S27196; MUID:93041938; PMID:1420316 A; Rocession: S27196 A; Rocession: S27196 A; Rescule type: mRNA A; Resculation: S26-780 < BAX> A; Cross-references: UNIPARC:UPI0000177ADB; EMBL:X63820 A; Reference number: S36600 A; Rocession: S36600 A; Rocessi	J. Biol. Cl A; Title: Cc A; Reference A; Reference A; Reatus: In A; Molecule A; Residues A; Ccoss-rel B; Bakhshi,	rand
Autitle: Identification of factor.XIIIa-reactive glutaminyl residues in the propolypeption	A,TILLE: Sr A,Reference A,Accesence A,Molecule A,Residues A,Cross-ref R,Bakhshi, submitted A,Reference A,Reference A,Reference A,Reference A,Reference A,Reference A,Reference A,Residues A	A;Itle: Sequencing of the primary adhesion domain of bovine von Willebrand factor. A;Reference number: \$27196; MUID:93041938; PMID:1420316 A;Reference number: \$27196; MUID:93041938; PMID:1420316 A;Residues: 265-780 cBAX> A;Residues: 265-780 cBAX> A;Residues: 265-780 cBAX> A;Cross-references: UNIPARC:UPI0000177ADB; EMBL:X63820 B;Bakhshi, M.R. A;Reference number: \$36600 A;Accession: \$36600 A;Accession: \$36600 A;Accession: \$3650 A;Residues: 265-615, SRYA, 620-687, 'M', 689-718, 'G', 720-780 cBA2> A;Residues: 265-615, 'SRYA, 620-687, 'M', 689-718, 'G', 720-780 cBA2> A;Cross-references: UNIPARC:UPI0000177ADC; EMBL:X63820 A;Cross-references: UNIPARC:UPI0000177ADC; EMBL:X63820 B;Cross-references: UNIPARC:UPI0000177ADC; EMBL:X63820 A;Cross-references: UNIPARC:UPI0000177ADC; EMBL:X63820 A;Tries: J': Biochem: 232, 773-777, 1995 A;Title: Identification of factor-XIIIa-reactive glutaminyl residues in the propolypeptiv

us-10-733-852-1.rpr

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69.1%;
55.6%;
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Matches 5; Conserv
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A; Status: preliminary
A; Molecule type: DNA
A; Residues: 1-318 < KUR>
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                                                                                         hypothetical
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heme A farnesyltransferase homolog - barley (fragment)
C;Species: Hordeum vulgare (barley)
C;Species: Hordeum vulgare (barley)
C;Date: 30-Apr-1999 #sequence_revision 30-Apr-1999 #text_change 09-Jul-2004
C;Accession: T05927
C;Accession: T05927
C;Accession: T05927
Explass W.R.; Golz, R.R.; Boerner, T.
Plant Sci. 133, 191-201, 1998
A;Title: Analysis of randomly selcelted cDNAs reveals the expression of stress- and defe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 2

(93263

hypothetical protein PA3052 [imported] - Pseudomonas aeruginosa (strain PAO1)

(5)Species: Pseudomonas aeruginosa

(5)Date: 15-Sep-2000 #sequence_revision 15-Sep-2000 #text_change 09-Jul-2004

(6)Accession: C91263

(7) Ristover, C.K.; Pham, X.Q.; Erwin, A.L.; Mizoguchi, S.D.; Warrener, P.; Hickey, M.J.; Bradman, S.; Yuan, Y.; Brody, L.L.; Coulter, S.N.; Folger, K.R.; Kas, A.; Larbig, K.; Lim, Nature 406, 959-964, 2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A,Title: Complete genome sequence of Pseudomonas aeruginosa PAO1, an opportunistic pathd A,Reference number: A82950; MUID:20437337; PMID:10984043
A,Accession: C83263
A,Status: preliminary
A,Molecule type: DNA
A,Residues: 1-326 <STO>
A;Accession: S68346
A;Molecule type: protein
A;Residues: 22-31;'LSPVYAGRTCGLGNYN';99-101,'X',103-122 <TAL>
A;Residues: 22-33;'LSPVYAGRTCGLGNYN';99-101,'X',103-122 <TAL>
A;Cross-references: UNIPARC:UPI0000177ADD; UNIPARC:UPI0000177ADF;
C;Superfamily: ,von Willebrand factor; von Willebrand factor type A repeat homology; von C;Keywords: blood coagulation; call binding; connective tissue; extracellular matrix; gl
F;513-681/Domain: von Willebrand factor type A repeat homology <WAl>
F;755/Binding site: carbohydrate (Asn) (covalent) #status predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A;Cross-references: UNIPROT:Q9HZF6; UNIPARC:UP100000C58EC; GB:AE004730; GB:AE004091; NLI
A;Experimental source: strain PAO1
C;Genetics:
A;Gene: PA3052
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A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: mRNA
A;Residues: 1-48 <HES>
A;Cross-references: UNIPROT:O48635; UNIPARC:UPI00000A248F; EMBL:AJ222781; NID:e1203993;
A;Experimental source: cv. Haisa, leaf
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21 WQSPHFMALA 30
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CjAccession: AB2032
R;Kaneko, T.; Nakamura, Y.; Wolk, C.P.; Kuritz, T.; Sasamoto, S.; Watanabe, A.; Iriguchi, Nakazaki, V.; Shimpo, S.; Sugimoto, M.; Takazawa, M.; Yamada, M.; Yasuda, M.; Tabata, S. ANA Res. 8, 205-213, 2001
A) A Fitte: Complete Genomic Sequence of the Filamentous Nitrogen-fixing Cyanobacterium Anal A; Reference number: AB1807; MUID:21595285; PMID:11759840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NyAlternate names: protein YHR123w; sn.1,2,diacylglycerol ethanolamine phosphotransferase Cispecies: Saccharomyces cerevisiae Cispecies: Saccharomyces cerevisiae Cispecies: Saccharomyces cerevisiae Cispecies: Saccharomyces cerevisiae 02-Dec-1994 #text_change 05-Oct-2004 Ciscession: S48967; S27296; A23714; S16700 Signalitied to the EMBL Data Library, June 1994 A;Description: The sequence of S. cerevisiae cosmid 9315.
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A;Aolecule type: DUA
A;Residues: 1-391 <FULA
A;Cross-references: UNIPROT:P22140; UNIPARC:UPI000012A0BD; EMBL:U10398; NID:G551328; PID)
R;HisImstad, R.H.; Bell, R.M.
a;Damitted to the EMBL Data Library, April 1991
A;Reference number: S27296
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A;Cross-references: UNIPARC:UPIPO00179555; GB:MS9311
A;Note: the authors translated the codon GF for residue 26 as Tyr
A;Note: the sequence from Fig. 7 is inconsistent with that from Fig. 2 in having 278-Leu,
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                                  C;Species: Nortoc sp. PCC 7120
A;Note: Nostoc sp. strain PCC 7120 is a synonym of Anabaena sp. strain PCC 7120
C;Date: 14-Dec-2001 #sequence_revision 14-Dec-2001 #text_change 09-Jul-2004
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protein alr1808 [imported] - Nostoc sp. (strain PCC 7120)
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C;Keywords: transferase; transmembrane protein
F;49-69/Domain: transmembrane #status predicted <TMl>
F;175-195/Domain: transmembrane #status predicted <TM2>
F;216-236/Domain: transmembrane #status predicted <TM3>
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Pred. No. 9.2;
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C;Species: Homo sapiens (man)
C;Species: Homo sapiens (man)
C;Date: 0.4-Dec-1986 #sequence_revision 30-Jun-1993 #text_change 09-Jul-2004
C;Accession: A34480; S02377; A37139; S23676; A25288; A25469; A25366; S23618; S23645; A94(
R;Mancuso, D.J.; Tuley, E.A.; Westfield, L.A.; Worrall, N.K.; Shelton-Inloes, B.B.; Sorac, B. Biol. Chem. 264, 19514-19527, 1989
A;Title: Structure of the gene for human von Willebrand factor.
A;Reference number: A34480; MUID:90062044; PMID:2584182
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i,Cross-references: UNIPARC:UPI000017431A; EMBL:X06828
i,Mancuso, D.J.; Tuley, E.A.; Westfield, L.A.; Lester-Mancuso, T.L.; Le Beau, M.M.; Sorac
inchemistry 30, 253-269, 1991
i,Title: Human von Willebrand factor gene and pseudogene: structural analysis and differe
i,Reference number: A37139; MUID:91105089; PMID:1988024
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           J.Cross-references: UNIPARC:UP1000016B30B; GB:M60675; NID:g340357; PIDN:AAA61295.1; PID:g1;Note: the authors translated the codon CGC for residue 156 as Gln
j.Collins, C.J.; Underdall, J.P.; Levene, R.B.; Ravera, C.P.; Morin, M.J.; Dombalagian, N. Proc. Natl. Acad. Sci. U.S.A. 84, 4393-4397, 1987
Natl. Acad. Sci. U.S.A. 84, 4393-4397, 1987
J.Title: Molecular cloning of the human gene for von Willebrand factor and identification in the form of the human gene for von Willebrand factor and identification in the form of the human gene for von Willebrand factor and identification is the form of the human gene for von Willebrand factor and identification is the form of the fo
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Embo J. 5, 1839–1847, 1986
A;Hitle: Full-length von Willebrand factor (vWF) cDNA encodes a highly repetitive proteir
A;Reference number: A91044; MUID:87004550; PMID:3019665
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R,Shelton-Inloes, B.B.; Broze Jr., G.J.; Miletich, J.P.; Sadler, J.E.
Babchem. Blophys. Res. Commun. 144, 657-665, 1987
A,Title: Bvolution of human von Willebrand factor: CDNA sequence polymorphisms, repeated A,Reference number: S23618; MUID:87213253; PMID:3495266
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A;Accession: S23645
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A;Residues: 2731-2813 <COL>
A;Cross-references: UNIPARC:UP1000014240A; EMBL:M16945
A;Cross-references: UNIPARC:UP1000014240A; EMBL:M16945
A;Bonthron, D.; Orr, E.C.; Mitsock, L.M.; Ginsburg, D.; Handin, R.I.; Orkin,
Nucleic Acids Res. 14, 7125-7127, 1986
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A;Residues: 1-470,'V',472-483,'R',485-1022,'K',1024-1025,'E',1027-1400 <VER>
A;Cross-references: UNIPARC:UP1000017431C; EMBL:X04146
A;Note: this sequence has been revised in reference A91056
EX;Verweij, C.L.; Diergaarde, P.J.; Hart, M.; Pannekoek, H.
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A; Residues: 1-2813 < MAN>
A; Residues: 1-2813 < MAN>
A; Cross-references: UNIPROT: P04275; UNIPARC: UPI000046823; EMBL: M25864
A; Cross-references: UNIPROT: P04275; UNIPARC: UPI000046823; EMBL: M25864
B; Duthron, D.; Orkin, S.H.
Eur. J. Biochem. 171, 51-57, 1988
A; Title: The human von Willebrand factor gene. Structure of the 5' reg:
A; Reference number: 802377; MUID: 88111704; PMID: 2828057
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Residues: 1470,'V',472-2813 <BON>
Cross-references: UNIPARC:UP1000017431B; EMBL:X04385
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                                                                       factor precursor - human
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A;Residues: 1021-1030 <VE2>
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A, Residues: 990-1947 <MAD>
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A;Accession: A25366
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$575694
hypothetical protein slr1478 - Synechocystis sp. (strain PCC 6803)
C;Species: Synechocystis sp.
C;Species: Synechocystis sp.
C;Date: 25-Apr-1997 #sequence_revision 25-Apr-1997 #text_change 09-Jul-2004
C;Date: 25-Apr-1997 #sequence_revision 25-Apr-1997 #text_change 09-Jul-2004
C;Accession: 875694
R;Kaneko, T.; Sato, S.; Kotani, H.; Tanaka, A.; Asamizu, E.; Nakamura, Y.; Miyajima, N.;
DN, K.; Okumura, S.; Shimpo, S.; Takeuchi, C.; Wada, T.; Watanabe, A.; Yamada, M.; Yasuda
DN, Res. 3, 109-136, 1996
A;Title: Sequence analysis of the genome of the unicellular cyanobacterium Synechocystis
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A;Note: the nucleotide sequence was submitted to the EMBL Data Library, June 1996
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A;Accession: T41260
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-1150 <SEE>
A;Cross-references: UNIPROT:074501; UNIPARC:UP1000013A431; EMBL:AL031545; PIDN:CAA20853.
A;Experimental source: strain 972h-; cosmid c285
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C.Date: 03-Dec-1999 #sequence_revision 03-Dec-1999 #text_change 09-Jul-2004
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R;Seeger, K.; Harris, D.; Lyne, M.; Rajandream, M.A.; Barrell, B.G.
submitted to the EMBL Data Library, September 1998
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A;Accession: S75694
A;Status: nucleic acid sequence not shown; translation not shown A;Molecule type: DNA
A;Residues: 1-317 <KAN>
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F;263-283/Domain: transmembrane #status predicted <TM4> F;289-209/Domain: transmembrane #status predicted <TM5> F;319-339/Domain: transmembrane #status predicted <TM6> F;310-339/Domain: transmembrane #status predicted <TM6> F;347-367/Domain: transmembrane #status predicted <TM7>
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60.0%; Pred. No. 11;
ive 2; Mismatches 3;
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A,Gene: SPDB:SPCC285.14
A,Map position: 3
A,Introns: 10/1; 85/3; 642/3; 784/3
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nes 5; Conservative
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Best Local Similarity 60.0
Matches 6; Conservative
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WRDPAFLEL 136
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Matches
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A;Molecule type: protein

RESULT

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A;Map position: 12p13.3-12p13.2
A;Map position: 12p13.3-12p13.2
A;Map position: 12p13.3-12p13.2
A;Map position: 12p13.3-12p13.2
A;Marcons: 19/1; 74/1; 108/2; 178/1; 219/3; 222/1; 333/1; 370/2; 386/1; 431/3; 478/1; 513.
5/1; 1724/1; 1771/1; 1819/1; 1887/1; 1888/3; 1948/1; 2021/3; 2086/1; 2200/1; 2266/3; 2303/2; 2303/2; 224/2; 1771/1; 1819/1; 1874/1; 1888/3; 1948/1; 2011/3; 2000/1; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/2; 220/
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Fi236-2330/Domain: type B repeat 1 <VB1>
Fi236-2335/Domain: type B repeat 2 <DB4>
Fi237-2399/Domain: type B repeat 3 <UB3>
Fi237-2399/Domain: type B repeat 3 <UB3>
Fi237-2399/Domain: von Willebrand factor type C repeat homology <VWC1>
Fi2507-2509/Region: cell attachment (R-G-D) motif C repeat homology <VWC2>
Fi2581-2647/Domain: von Willebrand factor type C repeat homology <VWC2>
Fi2581-2647/Domain: von Willebrand factor type C repeat homology <VWC2>
Fi857,1231,1515,1574,2223,2290,2357,2400,2546,2585,2790/Binding site: carbohydrate (Asn)
Fi1248,1255,1256,1468,1477,1487,1679,2298/Binding site: carbohydrate (Thr) (covalent) #status experimental
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ;387-745/Domain: type D repeat 2 < DD2>
;698-700/Region: cell attachment (R-G-D) motif
;764-2813/Product: von Willebrand factor #status predicted < MA2>
;784-865/Domain: D' < DDD.
;788-835,2216-226//Region: duplication
;826-853,2406-2515,2544-2662/Region: duplication
;842-1130,1934-2203/Region: duplication
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1866-1241/Domain: type D repeat 3 <DD3>
1,1275-1443/Domain: von Willebrand factor type A repeat homology
1,496-1654/Domain: von Willebrand factor type A repeat homology
1,1689-1854/Domain: von Willebrand factor type A repeat homology
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Pred. No. 1.5e+02;
1; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                  A; Cross-references: GDB:119125; OMIM:193400
                      A; Molecule type: protein
A; Molecule type: protein
A; Residues: 576-590 < FAX>
A; Cross-references: UNIPARC: UPI0000174326
C; Genetics:
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60.0%;
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Best Local Similarity
Matches 6; Conserv
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A;Introns: 50/2; 8
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Akholecule type: maxwa
Akholecule type: 
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A;Molecule type: protein
A;Molecule type: protein
A;Molecule type: protein
A;Rossureferences: UNIPARC:UPI0000174325
B;Fay, P.J.; Kawai, Y.; Wagner, D.D.; Ginsburg, D.; Bonthron, D.; Ohlsson-Wilhelm, B.M.;
Science 232, 995-998, 1986
A;Title: Propolypeptide of von Willebrand factor circulates in blood and is identical tc
A;Reference number: A60913; MUID:86208144; PMID:3486471
A;Residues: 23-56 <SH3>
A;Cross-references: UNIPARC:UPI000017431E
R;Sadler, J.E.; Shelton-Inloes, B.B.; Sorace, J.M.; Harlan, J.M.; Titani, K.; Davie, E.W
Proc. Natl. Acad. Sci. U.S.A. 82, 6394-6398, 1985
A;Title: Cloning and characterization of two CDNAs coding for human von Willebrand factch
A;Reference number: A94060; MUID:86016708; PMID:2864688
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A; Molecule type: mRNA
A; Residues: 781-788, A, 790-1424 <SHE>
A; Cross-references: UNIPARC: UPI0000114321
A; Note: 852-61n, 857-Asp, and 1381-Thr were also found
A; Note: 852-61n, 857-Asp, and 1381-Thr were also found
Science 228, 1401-1406, 1985
A; Title: Human von Willebrand factor (vWF): isolation of complementary DNA (cDNA) clones
A; Reference number: A44178
A; Molecule type: mRNA
A; Residues: 2621-2813 <GIN>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A;Cross-references: UNIPARC:UPI000016B307; EMBL:K03028; NID:g340308; PIDN:AAA61293.1; PI R;Verweij, C.L.; de Vries, C.J.M.; Distel, B.; van Zonneveld, A.J.; van Kessel, A.G.; va Nucleic Acids Ree. 13, 4699-4717, 1985
A;Title: Construction of EDNA coding for human von Willebrand factor using antibody prob A;Reference number: S07363; MUID:85269603; PMID:3875078
                                                                                                                                                                                                                                                                                                                                                                                                     A; Molecule type: mRNA
A; Residues: 'WA', 739, 'C', 744-769, 'H', 771-788, 'A', 790-803,'S', 805-873;1289-1471,'D', 1473-
A; Cross-references: UNIPARC:UPI000017431F; UNIPARC:UPI0000174320
A; Note: the authors translated the codon TCG for residue 2168 as Cys
R; Shelton-Inloes, B.B.; Titani, K.; Sadler, J.E.
Biochemistry 25, 3164-3171, 1986
A; Title: CDNA sequences for human von Willebrand factor reveal five types of repeated do
A; Reference number: A90504; MUID:86269894; PMID:3488076
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J.; Mewes, H.W.; Mayer,
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ö
                                                                                                                                                                                                                       hypothetical protein F10M10.40 - Arabidopsis thaliana
C;Species: Arabidopsis thaliana (mouse-ear cress)
C;Date: 23-Apr-1999 #sequence_revision 23-Apr-1999 #text_change 09-Jul-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                  A,Molecule type: DNA
A,Residues: 1-231 «EBC».
A,Cross-references: UNIPROT:Q9SY22; UNIPARC:UPI00000A1BDF; EMBL:AL035521
A,Experimental source: cultivar Columbia; BAC clone F10M10
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Pred. No. 16;
2; Mismatches
1; Mismatches
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A;Title: Genome Sequence of the Plant Pathogen and Biotechnology Agent Agrobacterium tumc
A;Reference number: A97359; MUID:21608551; PMID:11743194
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A;Residues: 1-693 <VAN>
A;Cross-references: UNIPROT:Q00141; UNIPARC:UPI000012FE4B; EMBL:Z26938; NID:g408110; PIDN
C;Genetics:
A;Introns: 595/3
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C;Keywords: flavoprotein; NADP; oxidoreductase
F;66-691/Domain: NADPH-ferrihemoprotein reductase homology <FEH>
F;68-220/Domain: flavodoxin homology <FLX>
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Signification being the EMBL Data Library, January 1992
Applacently brimary structure of the herpesvirus saimiri genome.
Applacession: H36806
Applacession: H36812
Applacent. Bands
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Applacent. J. 2469
Applacent. J. 2469
Applacent. J. 2469
Applacent. J. 300
Applacent. J
                                                                                                                                                                                                                                                                     A;Cross-references: UNIPROT:Q8U7H5; UNIPARC:UP10000DD25Aa; GB:AE007870; PIDN:AAK88968.1;
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R,van den Brink, J.; van Zeijl, C.; van den Hondel, C.; van Gorcom, R. submitted to the EMBL Data Library, October 1993
A;Pescription: Cloning and characterization of the NADPH cytochrome P450 oxidoreductase A;Reference number: $38427
A;Accession: $38427
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A;Note: host Saimiri sciureus (common squirrel monkey)
C;Date: 16-Oct-1992 #sequence_revision 16-Oct-1992 #text_change 08-Oct-1999
C;Accession: H36812
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NADPH-ferrihemoprotein reductase (EC 1.6.2.4) - Aspergillus niger
NiAlternate names: NADPH-Vytochrome P450 oxidoreductase
C.Species: Aspergillus niger
C.Species: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 09-Jul-2004
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                                                                                                                                                                                                                                                                                                                                                       A;Gene: AGR L 791
A;Map position: linear chromosome
C;Superfamily: glutamate-tRNA ligase; glutamine-tRNA ligase homology
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2; Length 488;
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Pred. No.
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Best Local Similarity 60.0
Matches 6; Conservative
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Matches 6; Conserv
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                                                                                           A;Accession: F98180
A;Status: preliminary
A;Molecule type: DNA
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                                                                                                             Pypothetical protein agr c 768 [imported] - Agrobacterium tumefaciens (strain C58, Cerec C;Species: Agrobacterium tumefaciens
C;Species: Agrobacterium tumefaciens
C;Species: Agrobacterium tumefaciens
C;Species: 30-Sep-2001 #sequence_revision 30-Sep-2001 #text_change 09-Jul-2004
C;Accession: A97412
R;Goodner, B.; Hinkle, G.; Gattung, S.; Miller, N.; Blanchard, M.; Qurollo, B.; Goldman, A.; Liu, P.; Wollam, C.; Allinger, M.; Doughty, D.; Scott, C.; Lappas, C.; Markelz, B.; Science 294, 2332-2328, 2001
A;Title: Genome Sequence of the Plant Pathogen and Biotechnology Agent Agrobacterium tum A;Reference number: A97359; MUID:21608551; PMID:11743194
A;Reference number: A97359; MUID:21608551; PMID:11743194
A;Rescidues: DAA
A;Rescidues: 1-301 - KUR>
A;Rescidues: 1-301 - KUR>
A;Cross-references: UNIPROT:QBU5L9; UNIPARC:UPI0000D2836; GB:AE007869; PIDN:AAK86250.1;
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Glutamyl-tRNA synthetase gltX [imported] - Agrobacterium tumefaciens (strain C58, Dupont C59cies: Agrobacterium tumefaciens C;Date: 11-Jan-2002 #sequence_revision 11-Jan-2002 #text_change 18-Nov-2002 C;Accession: AF3106
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Riwood, D.W.; Setubal, J.C.; Kaul, R.; Monks, D.; Chen, L.; Wood, G.E.; Chen, Y.; Woo, I. Karap, P.; Romero, P.; Zhang, S.
Science 294, 2.317-2323, 2001

A;Authors: Yoo, H.; Tao, Y.; Biddle, P.; Jung, M.; Krespan, W.; Perry, M.; Gordon-Kamm,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A;Cross-references: UNIPARC:UP10000164935; GB:AE008689; PIDN:AAL45268.1; PID:g17742953; A;Experimental source: strain C58 (Dupont)
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A;Title: The Genome of the Natural Genetic Engineer Agrobacterium tumefaciens C58.
A;Reference number: AB2577; MUID:21608550; PMID:11743193
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C;Superfamily: glutamate-tRNA ligase; glutamine-tRNA ligase homology
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| :|:|| || WDQPTFMHLS 244

음 8

RESULT 12

WREPSFMALS 10

Local Similarity

Query Match

9

A; Residues: 1-485 < KUR> A;Status: preliminary A;Molecule type: DNA A;Accession: AF3106

Score 36; DB Pred. No. 21; 3; Mismatches

65.5%;

Best Local Similarity 55.0 Matches 5; Conservative

Query Match

||:|:| |: WRDPTFTAV 107

1 WREPSFMAL 9

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A; Map position: circular chromosome

A; Gene: AGR C 768

C;Genetics:

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RESULT 15
14297
large tegument protein - ateline herpesvirus 3 (strain 73)
c; species: ateline herpesvirus 3
A; Variety: strain 73
C; Date: 21-Jan-2000 #sequence_revision 21-Jan-2000 #text_change 09-Jul-2004
C; Accession: 174297
R; Albrecht, J.C.; Fleckenstein, B.
Submitted to the EMBL Data Library, August 1998
A; Pescription: Primary structure of the herpesvirus ateles genome.
A; Reference number: 222274
A; Accession: 174297
A; Status: preliminary; translated from GB/EMBL/DDBJ
A; Molecule type: DNA
A; Status: preliminary; translated from GB/EMBL/DDBJ
A; Residues: 1-2471 - ALB>
A; Cross-references: UNIPROT: Q9YTK3; UNIPARC: UPI00000EFC9B; EMBL: AF083424; PIDN: AAC95588.
A; Experimental source: strain 73
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                                                                                                                                                                             Query Match 65.5%; Score 36; DB 2; Length 2469; Best Local Similarity 55.6%; Pred. No. 2.1e+02; Matches 5; Conservative 2; Mismatches 2; Indels
A;Contents: annotation; protein-coding frames
A;Note: neither protein nor nucleotide sequence is given
C;Genetics:
A;Gene: 64
                                                                                                                                                                                                                                                                                       1 WREPSFMAL 9
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1796 WEHPSFLAI 1804
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Search completed: November 22, 2005, 19:20:30 Job time : 42 secs

1 WREPSFMAL 9 | ||||: 1796 WEHPSFMSI 1804

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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
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OM protein - protein search, using sw model

Run on: November 22, 2005, 19:08:33 ; Search time 236 Seconds

(without alignments)

29.895 Million cell updates/sec

.: US-10-733-852-1

Perfect score: 55 Sequence: 1 WREPSFMALS 10 Scoring table: BLOSUM62 Gapop 10.0 , Gapext 0.5 Searched: 2166443 segs, 705528306 residues

Total number of hits satisfying chosen parameters: 2166443

Minimum DB seq length: 0 Maximum DB seq length: 2000000000 Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database : Uniprot_05.80:*
1: uniprot_sprot:*
2: uniprot_trembl:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Description	P80012 bos taurus	Q28833 sus scrofa	Q28295 canis famil	Q53mv3 oryza sativ					Q6ced5 yarrowia li	O70535 rattus norv		Q5c3k8 schistosoma		Q7zzpl rana ridibu	Q800w0 rana dybows	Q7num1 chromobacte		Q4i5g1 gibberella			-		074501 schizosacch	Q4ss45 tetraodon n	Q4zy32 pseudomonas	Q7q6i8 anopheles g	P74166 synechocyst		Q7v5ml prochloroco	Q609r7 methylococc	Q4t081 tetraodon n
SUMMAKIES	VWF BOVIN	WWF PIG	VWF CANFA	Q53MV3_ORYSA	VWF MOUSE	Q9FYAO_ARATH	Q6WVH2_9ACTO	Q9HZF6_PSEAE	Q6CEDS YARLI	O70535_RAT	048635_HORVU	Q5C3K8_SCHJA	Q8YW08_ANASP	Q7ZZP1 RANRI	Q800W0_RANDY	Q7NUM1_CHRVO	EPT1 YEAST	Q4ISG1 GIBZE	Q51ZU2_MAGGR	Q7G761_ORYSA	Q94LI2_ORYSA	Q7TUN3_PROMM	YCRE_SCHPO	Q4SS45_TETNG	Q4ZY32_PSESY	Q7Q618 ANOGA	P74166_SYNY3	Q73XS2_MYCPA	Q7V5M1 PROMM		Q4T081_TETNG
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% Query Match	89.1	81.8	81.8	80.0	74.5	2.7	72.7		70.9	70.9	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	69.1	69.1	69.1	9.1	9.1	o	_	7.3	7.3	7.3	7.3	7.3	7.3
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P57999 oryctolagus P04275 homo sapien Q91tv2 arabidopsis Q58r27 homo sapien Q69gc1 oryza sativ Q98yz2 arabidopsis Q4rj07 tetraodon n Q8uxy4 arabidopsis Q8ux16 agrobacteri Q6cwy klutyveromyc Q00141 aspergillus G5bfts aspergillus	Q4wm67 aspergillus
	Q4WM67_ASPFU
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2282 2813 199 199 223 231 231 246 290 301 485 693	695
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ALIGNMENTS

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"Your Willebrand factor, platelets and endothelial cell interactions.";
J. Thromb. Haemost. 1:1335-1342(2003).
-!- FUNCTION: Important in the maintenance of hemostasis, it promotes adhesion of platelets to the sites of vascular injury by forming a molecular bridge between sub-endothelial collagen matrix and platelet-surface receptor complex GPIb-IX-V. Also acts as a
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Fujisawa T., Takagi J., Sekiya F., Goto A., Miake F., Saito Y., "Monoclonal antibodies that inhibit binding of propolypeptide of von Willebrand factor to collagen. Localization of epitopes."; Eur. J. Biochem. 196:673-677(1991).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MEDLINE=97307751; PubMed=9165093; DOI=10.1016/S0167-4838(97)00043-5; Janel N., Ribba A.S., Cherel G., Kerbiriou-Nabias D., Meyer D.; Primary Structure of the propertide and factor VIII-binding domain c bovine von Willebrand factor."; Biochim. Biophys. Acta 1339:4-8(1997).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MEDLINE-96144290; PubMed-8566794; DOI=10.1016/0378-1119(95)00696-6; Janel N., Schwachtgen J.L., Bakhshi M.R., Barek L., Meyer D., Kerbiriou-Nabias D.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PARTIAL PROTEIN SEQUENCE.
MEDLINE=96028118; PubMed=7588715;
Takagi J., Aoyama T., Ueki S., Ohba H., Saito Y., Lorand L.;
"Identification of factor-XIIIa-reactive glutaminyl residues in the propolypeptide of bovine von Willebrand factor.";
Eur. J. Biochem. 232:773-777(1995).
                                                                                                                                                                                                                                                                                     Bos taurus (Bovine).
Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Laurasiatheria, Cetartiodactyla, Ruminantia,
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                        PRODUCT, Q28011;
01-NOV-1995 (Rel. 32, Created)
16-OCT-2001 (Rel. 40, Last sequence update)
10-MXY-2005 (Rel. 47, Last annotation update)
Von Willebrand factor precursor (vWF) (Fragment)
Name=VWF; Synonyms=F8VWF;
    937 AA.
PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PARTIAL PROTEIN SEQUENCE.
MEDLINE=91192039; PubMed=1707363;
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NCBI_TaxID=9913;
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    STANDARD;
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PIR; PN0563; PN0563.
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NCBI_TaxID=9823;
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                                                                                                                                                                                                                                                                   This Swiss-Prot entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use as long as its content is in no way modified and this statement is not
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AAA0523.1; -; mRNA.

**COG207; Cys knot C.

**IRRO1007; VWP_C.

**COG207; Cys knot C.

**COG207; Cys knot C.

**COG207; Cys knot C.

**COG207; VWP_C.

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chaperone for coagulation factor VIII, delivering it to the site of injury, stabilizing its heterodimeric structure and protecting it from premature clearance from plasma.
SUBUNIT: Multimeric (By similarity).
                                                                                          SUBCELLULAR LOCATION: Secreted. Localized to storage granules (By
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                        DOMAIN: The propeptide is required for multimerization of VWF
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                                                                                                                                                        for its targeting to storage granules (By similarity). PTM: All cysteine residues are involved in intrachain or interchain disulfide bonds (By similarity). SIMILARITY: Contains at least 3 VMFD domains.
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G -> Q (in Ref. 4).
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2482 AA.

WWF PIG STANDARD; Q28833; 16-OCT-2001 (Rel. 40, Created)

RESULT 2 VWF_PIG ID VWF 1 AC Q288: DT 16-00

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This Swiss-Prot entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use as long as its content is in no way modified and this statement is not
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ruggeri Z.M.;
"von Willebrand factor, platelets and endothelial cell interactions.";
J. Thromb. Haemost. 1:1335-1342(2003)
-!- FUNCTION: Important in the maintenance of hemostasis, it promotes
adhesion of platelets to the sites of vascular injury by forming a
molecular bridge between sub-endothelial collagen matrix and
platelet-surface receptor complex, glycoprotein Ibalpha/IX/V. Also
acts as a chaperone for coagulation factor VIII, delivering it to
the site of injury, stabilizing its heterodimeric structure and
protecting it from premature clearance from plasma (By
                                                                                                                                                                                                                                                                            NUCLEOTIDE SEQUENCE OF 397-553.
MEDLINE=93356762; PubMed=8352759;
Lavergone J.M., Plao Y.C., Ferreira V., Kerbiriou-Nabias D.,
Bahnak B.R., Mayer D.;
"Primary structure of the factor VIII binding domain of human, porcine and rabbit von Willebrand factor.";

similarity).
DOMAIN: The propeptide is required for multimerization of VWF and for its targeting to storage granules (By similarity).
-!- PTM: All cysteine residues are involved in intrachain or interchain disulfide bonds (By similarity).
-!- SIMILARITY: Contains 1 CTCK (C-terminal cystine knot-like) domain.
-!- SIMILARITY: Contains 3 VWFA domains.
-!- SIMILARITY: Contains 3 VWFC domains.
-!- SIMILARITY: Contains at least 1 VWFD domain.

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SUBUNIT: Multimeric (By similarity).
SUBCELLULAR LOCATION: Secreted. Localized to storage granules (By
                                                                          Sus scrofa (Pig).
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalia; Butheria; Laurasiatheria; Cetartiodactyla; Suina; Suidae;
                                                                                                                                                                                                 NUCLEOTIDE SEQUENCE.
Seaman W.T., Read M.S., Bellinger D.A., Nichols T.C.;
Submitted (MAR-1998) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                             PubMed=12871266; DOI=10.1046/j.1538-7836.2003.00260.x;
                                                                                                                                                                                                                                                                                                                                                                                                       iochem. Biophys. Res. Commun. 194:1019-1024(1993)
16-OCT-2001 (Rel. 40, Last sequence update)
10-MAY-2005 (Rel. 47, Last annotation update)
Von Willebrand factor precursor (VWF) (Fragment)
Name=VWF; Synonyms=F8VWF;
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SMR; Q28833; 931-1138, 1353-1542.
InterPro; IPR006207; Cyg knot_C.
InterPro; IPR006207; Cyg knot_C.
InterPro; IPR006309; Prot_inh_CR_TIL.
InterPro; IPR001909; Prot_inh_PMP.
InterPro; IPR001007; VWP_A.
InterPro; IPR001007; VWP_A.
InterPro; IPR001007; VWP_A.
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EMBL; S64541; AAB27829.2; -; mRNA.
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PRINTS; PR00453; VWFADOMAIN.
SMART; SM00041; CT; 1.
SMART; SM00181; EGF; 1.
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PF00093; VWC; 3.
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SMART; SM00127; VWA; 3.

SWART; SM00214; VWC; 5.

SWART; SM00216; VWC; 5.

SWART; SM00216; VWC; 3.

PROSITE; PS01185; CTCK_2; 1.

PROSITE; PS50234; VWFA, 3.

PROSITE; PS501208; VWFC_1; 3.

PROSITE; PS50184; VWFC_2; 3.

Blood coagulation; Cell adhesion; Extracellular matrix; Glycoprotein;
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C-1568 with C-1611 (By similarity).
similarity.
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Length 2482;

DB 1;

Score 45; Pred. No. 3

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Query Match Best Local Similarity

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STRAIN=Scottish terrier; TISSUE=Uterus;
STRAIN=Scottish terrier; TISSUE=Uterus;
PubMed=10668811, DOI=10.1892/0891-6640(2000)014<0010:MCVWDI>2.3.CO;2;
Venta P.J., Li J., Yuzbasiyan-Gurkan V., Brewer G.J., Schall W.D.;
"Mutation causing von Willebrand's disease in Scottish Terriers.";
J. Vet. Intern. Med. 14:10-19(2000).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       cants ramilatis (Jug).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalla; Eutheria; Lanzasiatheria; Carnivora; Fissipedia; Canidae;
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TISSUE=Blood;
Mancuso D.J., Christopherson P.A., Kroner P.A., Montgomery R.R.;

"The canine von Willebrand factor gene: sequence and expression of
region encoding the glycoprotein Ib/IX binding domain.";
Submitted (JAN-1994) to the EMBL/GenBank/DDBJ databases.
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Stoy S.J., Shibuya H., Nonneman D.J., Holzhauer J., Mohammed I.H.,
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bbbdel=10561880;
Habbrichter S.L., Fahs S.A., Montgomery R.R.;
"von Willebrand factor storage and multimerization: 2 independent
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
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PTM: All cysteine residues are involved in intrachain
interchain disulfide bonds (By similarity).
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Submitted (AUG-1996) to the EMBL/GenBank/DDBJ databases
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NUCLEOTIDE SEQUENCE, SUBUNIT, AND SUBCELLULAR LOCATION
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                                                                                                                                                                                                                                                                                                                  VWF_CANFA STANDARD; PRT; 2813 AA. 028295; Q28311; Q9TS14; 01-NOV-1997 (Rel. 35, Created) 10-NOV-2005 (Rel. 40, Last sequence update) 10-MAY-2005 (Rel. 47, Last annotation update) Von Willebrand factor precursor (VWF). Canis familiaris (Dog).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               intracellular processes.";
Blood 96:1808-1815(2000).
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WREPSFMALS 10
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RESULT 4
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AC Q53MV3_ORYSA
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DT 13-SEP-2005 (TrEMBLrel. 31, Last annotation update)
DT 13-SEP-2005 (TrEMBLrel. 31, Last annotation update)
DT 13-SEP-2005 (TrEMBLrel. 31, Last annotation update)
DT 07x2 sativa (japonica cultivar-group)
CS Oryza sativa (japonica cultivar-group)
CC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
CC Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;
CC Ehrhartoideae; Oryzaae; Oryzaa.
CX NCBI_TAXID=39947;
N-linked (GlcNAc. ..) (Potential).
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                                                                                                                                                                                                                                                                  DISEASE: Defects in VWF are the cause of von Willebrand disease (VWD) in the Scottish Terrier. VWD is characterized by frequent bleeding. Type I VWD is associated with a deficiency of VWF; type II by normal to decreased plasma level of VWF; type III by a virtual absence of VWF.

SIMILARITY: Contains 1 CTCK (C-terminal cystine knot-like) domain. SIMILARITY: Contains 3 VWFA domains.
SIMILARITY: Contains 3 VWFA domains.
SIMILARITY: Contains 4 VWFD domains.
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l attachment site (Potential).
l attachment site (Potential).
linked (GlCNAc. .) (Potential).
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By similarity.
Von Willebrand f.
VWPD 1.
VWPD 2.
VWPD 3.
VWPA 1.
VWPA 2.
VWPA 2.
VWPA 2.
VWPA 3.
VWPC 4.
VWPC 3.
VWPC 7.
VWPC 7.
VWPC 7.
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X MEDLINE-2234683; PubMed=12466851; DOI=10.1038/nature01266;

X Okazaki Y. Puruno M., Kasukawa T., Adachi J., Bono H., Kondo S.,

X Mikaido I., Osato N., Saito R., Suzuki H., Yamanaka I., Kiyosawa H.,

X Yagi K., Tomaru Y., Hasegawa Y., Nogami A., Schonbach C., Gojobori T.,

Baldarelli R., Hilli D.P., Bult C., Hume D.A., Quackenbush J.,

Baldarelli R., Hilli D.P., Bult C., Hume D.A., Quackenbush J.,

Balake J.A., Bradt D., Brusic V., Chothia C., Corbani L.E., Cousins S.,

Balake J.A., Bradt D., Brusic V., Chothia C., Corbani L.E., Cousins S.,

Balake J.A., Bradt D., Hercher C.F., Forrest R. S.,

Balake J.A., Bradt D., Hrickewa N., Jackson I.J., Jarvis B.D.,

Kanai A., Kawaji H., Kawasawa Y., Kedzierski R.M., King B.L.,

Kanai A., Kawaji H., Kawasawa Y., Kedzierski R.M., King B.L.,

Kanai A., Kawaji H., Kawasawa Y., Kedzierski R.M., King B.L.,

Maglott D.R., Maltais L., Marchionni L., McKenzie L., Miki H.,

Nagashima T., Numata K., Okido T., Pavan W.J., Pertea G., Pesole G.,

Ravasi T., Reed J.C., Reed D.J., Reid J., Ring B.Z., Ringwald M.,

Sandelin A., Schneider C., Semple C.A., Setou M., Shimada K.,

Sandelin A., Takenaka Y., Taylor M. S., Teasdale R.D., Tomita M.,

Verardo R., Wagner L., Wahleetekt C., Wang Y., Watenabe Y., Wells C.,

Willming L.G., Wynshaw-Boris A., Yanagisawa M., Yang I., Yang L.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mus musculus (Mouse).
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalia; Butheria; Buarchontoglires; Glires; Rodentia; Sciurognathi;
Muroidea; Muridae; Murinae; Mus.
                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
Buell C., Yuan Q., Ouyang S., Liu J., Wang A., Maiti R., Lin H., Zhu W., Hamilton J., Tollon L., Feldblyum T., Tsitrin T., Reardon W., Hamilton J., Fedroby D., Vuong H., Overton II L., Reardon M., Weaver B., Johri S., Lewis M., Utterback T., Van Aken S. Wortman J., Haas B., Koo H., Zismann V., Heilao J., Iobet S., de Vazeilles A., White O., Salzberg S., Fraser C.; Jobet S., Submitted (OCT-2002) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            VWF MOUSE STANDARD; PRT; 2813 AA.
QBCIZ8: Q60863; Q6XUV6; Q8BIU9; Q8CGN0; Q9JK16;
Q1-FEB-2005 (Rel. 46, Created)
O1-FEB-2005 (Rel. 46, Last sequence update)
13-FEB-2005 (Rel. 48, Last annotation update)
Von Willebrand factor precursor (vWF) [Contains: Von Willebrand
                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     "Cloning of full-length murine von Willebrand factor cDNA.", Submitted (DEC-2002) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                            Score 44; DB 2; Length 546;
Pred. No. 8.2;
                                                                                                                                                                                                                                                                                                                                                                                               1; Indels
                                                                                                                                                                                                                                       Submitted (APR-2005) to the EMBL/GenBank/DDBJ databases.
EMBL; AC135561; AAX96628.1; -; Genomic DNA.
SEQUENCE 546 AA; 59642 MW; 8F96C80977A85839 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Submitted (JUL-2003) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Lenting P.J., Westein E., de Groot P.G., Denis C.V.;
"Murine von Willebrand factor.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA] (ISOFORM 2).
                                                                                                                                                                                                                                                                                                                                                                                            2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Chitta M.S., Duhe R.J., Kermode J.C., "Cloning of full-length murine von Wi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NUCLEOTIDE SEQUENCE (ISOFORM 1).
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Best Local Similarity
7; Conserve
                                                                                                                                                                                                NUCLEOTIDE SEQUENCE.
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Yuan Z., Zavolan M., Zhu Y., Zimmer A., Carninci P., Hayatsu N., Hirozane-Kishikawa T., Konno H., Nakamura M., Sakazume N., Sato K., Shizaki T., Waki K., Kawai J., Aizawa K., Arakwa T., Fukuda S., Hara A., Hashizume W., Imotani K., Ishii Y., Itoh M., Kagawa I., Miyazaki A., Sakai K., Sasaki D., Shibata K., Shinagawa A., Yasunishi A., Yoshino M., Waterston R., Lander E.S., Rogers J., Birney E., Hayashizaki Y.; Birmey E., Lander E.S., Rogers J., Chimagawa B., Hayashis of the mouse transcriptome based on functional annotation of 60,770 full-length cDNAs.";
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"Von Wilebrand factor, platelets and endothelial cell interactions.",
"Von Wilebrand factor, platelets and endothelial cell interactions.",
J. Thromb. Haemost. 1:1335-1342(2003).
-- FUNCTION: Important in the maintenance of hemostasis, it promotes
adhesion of platelets to the sites of vascular injury by forming a
molecular bridge between sub-endothelial collagen matrix and
platelet-surface receptor complex gebi-1x-. Also acts as a
chaperone for coagulation factor VIII, delivering it to the site
of injury, stabilizing its heterodimeric structure and protecting
it from premature clearance from plasma (By similarity).
-- SUBCELLULAR LOCATION: Secreted. Localized to storage granules (By
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PubMed=14613933; DOI=10.1074/jbc.M310436200; Lenting P.U., Westein E., Terraube V., Ribba A.-S., Huizinga E.G., Meyer D., de Groot P.G., Denis C.V.; Meyer D., de Groot P.G., Denis C.V.; Meyer D., de Groot P.G., Denis C.V.; Tables experimental model to study the in vivo survival of von Willebrand factor. Basic aspects and application to the R1205H mutation."; J. Biol. Chem. 279:12102-12109(2004).
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Note=No experimental confirmation available;
TISSUE SPECIFICITY: Blood, predominantly that which is targeted to
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-!- PTM: All cysteine residues are involved in intrachain or interchain disulfide bonds (By similarity).
-!- SIMILARITY: Contains 1 CTCK (C-terminal cystine knot-like) domain.
-!- SIMILARITY: Contains 3 VWFA domains.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NUCLEOTIDE SEQUENCE OF 1238-1658 (ISOFORM 1).
MEDLINE=20185297; PubMed=1072222; DOI=10.1098/rspb.2000.1014;
Huchon D., Catzefilis F.M., Douzsery E.J.P.;
"Variance of molecular datings, evolution of rodents and the phylogenetic affinities between Ctenodactylidae and Hystricognathi.";
Proc. R. Soc. Lond., B, Biol. Sci. 267:393-402(2000).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Nichols W.C., Cooney K.A., Mohlke K.L., Ballew J.D., Yang A., Bruck M.E., Reddington M., Novak E.K., Swank R.T., Ginsburg D., "von Willebrand disease in the RIIIS/J mouse is caused by a defect outside of the von Willebrand factor gene.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Nichols W.C., Cooney K.A., Mohlke K.L., Ballew J.D., Yang A., Bruck M.E., Reddington M., Novak E.K., Swank R.T., Ginsburg D., Blood 86:2461-2461(1995).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MUTAGENESIS OF ARG-1205, AND TISSUE SPECIFICITY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NUCLEOTIDE SEQUENCE OF 1298-1684 (ISOFORM 1).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MEDLINE=94250904; PubMed=8193357;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Blood 83:3225-3231(1994).
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ALTERNATIVE PRODUCTS:
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Eukaryota, Viridiplantae, Etreptohyta; Embryophyta; Tracheophyta; Eukaryota, Viridiplantae, Etreptohyta; Embryophyta; Gore eudicots; rosids; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; rosids; eurosids II; Brassicales; Brassicaceae; Arabidopsis.
NCBI_TaxID=3702;
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Bevan M., Rose M., Hempel S., Entian K.-D., Bancroft I., Mewes H.W.
Rudd S., Lemcke K., Mayer K.F.X.;
Submitted (AUG-2000) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Cheuk R., Chen H., Kim C.J., Koesema E., Meyers M.C., Banh J.,
Bowser L., Carninci P., Dale J.M., Goldsmith A.D., Hayashizaki Y.,
Ishida J., Jiang P.X., Jones T., Kamiya A., Karlin-Neumann G.,
Kawai J., Lam B., Lee J.M., Lin J., Liu S.X., Miranda M., Narusaka
Nguyen M., Onodera C.S., Palm C.J., Pham P.K., Quach H.L., Sakurai
Satou M., Seki M., Southwick A., Tang C.C., Toriumi M., Yamada K.,
Yamamura Y., Yu G., Yu S., Shinozaki K., Davis R.W., Theologis A.,
                                                                                                                                                                                                                                                                                                                                                            01-MAR-2001 (TrEMBLrel. 16, Created)
01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
01-FEB-2005 (TrEMBLrel. 29, Last annotation update)
Hypothetical protein T19L5_60 (AT5g13100/T19L5_60) (At5g13100)
Name=T19L5_60;
Arabidopsis thaliana (Mouse-ear cress).
                                                                                                                           Length 2813;
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Pred. No. 32;
2; Mismatches 1; Indels
                                                                                                                           Score 41; DB 1; Length 281
Pred. No. 1.8e+02;
0; Mismatches 2; Indels
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Submitted (AUG-2000) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Cheuk R., Chen H., Kim C.J., Shinn P., Ecker J.R.;
"Arabidopsis ORF clones.";
Submitted (DEC-2004) to the EMBL/GenBank/DDBJ databases.
EMBL, 37131; CACC05438.1; -; Genomic_DNA.
EMBL, AYOS0168; AAL25582.1; -; MRNA.
EMBL, BT020363; AAV85718.1; -; MRNA.
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SEQUENCE 354 AA; 39305 MW; 4418A9E4B891138C CRC64;
                                  (GalNAc. . .)
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ID 0<u>9</u>FYAO ARATH PRELIMINARY;
AC 09FYAO;
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Les 7; Conservative
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21 WREPSTVAVS
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                                  This Swiss-Prot entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use as long as its content is in no way modified and this statement is not
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WWFD 3.
WWFD 3.
WWFA 1; binding site for platelet glycoprotein ib.
WWFA 2.
WWFA 3; principal binding site for collagens type I and III.
WWFC 1.
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Von Willebrand antigen II.
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 -!- SIMILARITY: Contains 4 VWFD domains
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2; Length 326;
       Score 39; DB 2
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2; Mismatches
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       Query Match
Best Local Similarity 66.7%;
Matches 6; Conservative
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QCCEDS;
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XX MEDLINB=22922109; PubMed=14528002; DOI=10.1073/pnas.2034291100;
XY Tayla Anlert J. Gao Q. Wendt-Pienkowski E., Shen B., Thorson J.S.;
XY Tayla PCR amplification of minimal enediyne polyketide synthase
I is u W., Ahlert J. Gao Q., Wendt-Pienkowski E., Shen B., Thorson J.S.;
XY Tayla PCR amplification of minimal enediyne polyketide synthase
XY Tayla PCR amplification of minimal enediyne polyketide synthase
XY Tayla PCR amplification of minimal enediyne polyketide synthase
XY Tayla PCR amplification enediyne familial classification model.";
XY TAYLA AMPSIA BL. J. Genomic DNA.
XY TAYLA AMPSIA BL. J. Genomic DNA.
XY TAYLA AMPSIA BL. J. Genomic DNA.
XY TAYLA PROBOSS P. Enecabolism; IEA.
XY TO GO:000613; P: Fiatus Ferase
XY THEOPYO; IPRO01237; Adh-short C.2.
XY THEOPYO; IPRO01237; Adh-short C.2.
XY THEOPYO; IPRO01347; Adh-short C.2.
XY THEOPYO; IPRO0199; Actoacyl-synth.
XY Pfam; PPO0106; adh_short; I.
XY Pfam; PPO0109; Ketoacyl-synt; 1.
XY Pfam; PPO0109; Ketoacyl-synt; 1.
XY PFAM; PRO00081; GDHRDH.
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Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales;
Pseudomonadaceae; Pseudomonas.
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                                                                                                                                                                                                                              Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales; Streptosporangineae; Thermomonosporaceae; Actinomadura.
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PIR; C83263; C83263.
Complete proteome; Hypothetical protein.
SEQUENCE 326 AA; 36362 MW; B63E96D3725A28A6 CRC64;
   (TrEMBLrel. 27, Created)
(TrEMBLrel. 27, Last sequence update)
(TrEMBLrel. 27, Last annotation update)
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01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
Hypothetical protein.
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                                                                                                                                                                                                  Actinomadura verrucosospora.
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Nature 406:959-964(2000).
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Q9HZF6;
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09HZF6 PS
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Dujon B., Sherman D., Fischer G., Durrens P., Casaregola S.,
A defontaine I., de Montigny J., Marck C., Neuveglise C., Talla E.,
Goffard N., Frangeul L., Aigle M., Anthouard V., Babour A., Barbe V.,
Barnay S., Blanchin S., Beckerich J.-M., Beyne E., Bleykasten C.,
Boisrame A., Boyer J., Cattolico L., Confanioleri F., de Daruvar A.,
Boisrame A., Robre E., Fairhead C., Ferry-Dumazet H., Groppi A.,
A Hantraye F., Hennequin C., Junniaux N., Joyet P., Kachouri R.,
A Nicaud J.-M., Nikolski M., Oztas S., Ozier-Kalogeropoulos O.,
A Pellenz S., Potier S., Richard G.-F., Straub M.-L., Suleau A.,
Swennen D., Tekaia F., Nesolowski-Louvel M., Westhof E., Wirth B.,
A Zoniou-Meyer M., Zivanovic Y., Bolotin-Fukuhara M., Thierry A.,
Bouchier C., Caudron B., Scarpelli C., Gaillardin C., Weissenbach J.,
"Genome evolution in yeasts.";
    Gaps
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Yarrowia lipolytica (Candida lipolytica).
Bukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes;
Saccharomycetales; Dipodascaceae; Yarrowia.
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25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
Yarrowia lipolytica chromosome B of strain CLIB99 of Yarrowia
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1; Indels
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GO; GO:0016021; C:integral to membrane; IEA.
GO; GO:0016020; C:membrane; IEA.
GO; GO:001559; F:amino acid permease activity; IEA.
GO; GO:0005865; P:amino acid permease activity; IEA.
GO; GO:0006810; P:transport; IEA.
InterPro; IPR004840; AAC_Dermease1.
InterPro; IPR004841; Permease_region.
InterPro; IPR004841; Permease_region.
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TIGREAMs; TIGR00913; 2A0310; 1.
PROSITE; PS00218; AMINO_ACID_PERMEASE 1; 1.
SEQUENCE FOOTCOCHE; Transmembrane; Transport.
SEQUENCE F77 AA; 63096 WW; FF62ADC70D0C2B66 CRC64;
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STRAIN-CLIB 122 / E 150;
PubMed=15229592; DOI=10.1038/nature02579;
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                                                                                                                                                                                                                                                                                                                                                                                                          MEDLINE 98007878; PubMed=9349722; DOI=10.1016/S0167-4781(97)00079-1; MEDLINE=98007878; PubMed=9349722; DOI=10.1016/S0167-4781(97)00079-1; Aixawa J., Ikeda-Naiki S., Ohgane J., Min K.S., Imamura T., Sasai K., Shiota K., Ogawa T.;

"Molecular cloning of rat leukemia inhibitory factor receptor alphachain element its expression during pregnancy.";

Biochim. Blophys. Acta 1353:266-276(1997).

-I. DOMAIN: The WSXWS motif appears to be necessary for proper protein folding and thereby efficient intracellular transport and cellsurface receptor binding (By similarity).

-I. DOMAIN: The box 1 motif is required for JAK interaction and/or activation (By similarity).
                                                                                                                                                            Rattus norvegicus (Rat).
Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Euarchontoglires, Glires, Rodentia, Sciurognathi,
Muridae, Murinae, Rattus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STRAIN-albostrians; TISSUE-White leaf;
Hess W.R., Golz R.R., Boerner T.;
"Analysis of randomly selectited cDNAs reveals the expression of
stress- and defence related genes in the barley mutant alostrians.";
Plant Sci. 133:191-201(1998).
EMBL; AJ222781; CAA10986.1; -; mRNA.
PIR, T05927; T05927; C:membrane; IEA.
GO; GO:0016020; C:membrane; IEA.
InterPro; IPR000537; UbiA_prenyltrans.
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Spermatophyta, Magnoliophyta, Liliopsida, Poales, Poaceae, Pooldeae,
Triticeae, Hordeum.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1093 AA; 122394 MW; 08D43DEAF8F5E3F6 CRC64;
01-AUG-1998 (TrEMBLrel. 07, Created)
01-AUG-1998 (TrEMBLrel. 07, Last sequence update)
01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
Leukemia inhibitor factor receptor alpha-chain.
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01-JUN-1998 (TrEMBLrel. 06, Last sequence update)
01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
Hypothetical protein (Fragment)
Hordeum vulgare (Barley)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ensembl; ENSRNOG0000011696; Rattus norvegicus. RGD; 621431; Lifr.
GG; GG:0016021; C:integral to membrane; IEA.
GG; GG:0004872; F:receptor activity; IEA.
InterPro; IPR002996; Cytkn recept_B/G.
InterPro; IPR003961; FN III.
InterPro; IPR003529; Hemptrecept_1302.
Pfam; PF00041; fin3; 4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SMART; SM00060; FN3; 5.
PROSITE; PS50853; FN3; 5.
PROSITE; PS01353; HEMATOPO REC L F2; UNKNOWN 1.
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HSSP; P40189; 1BQU.
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WRQPSWMA 14
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                                                                                                                                              Name=Lifr;
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048635 HOR
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MEDINE-21595286; PubMed=11759840;
Kaneko T., Nakamura Y., Wolk C.P., Kuritz T., Sasamoto S.,
Kaneko T., Iriguchi M., Ishikawa A., Kawashima K., Kimura T.,
Kishida Y., Kohara M., Mateumoto M., Matsuno A., Muraki A.,
Kishida Y., Kohara M., Mateumoto M., Takazawa M., Yamada M.,
Yasuda M., Tabata S.,
Tomplete genomic sequence of the filamentous nitrogen-fixing
cyanobacterium Anabaena sp. strain PCC 7120.";
DNA Res. 8:205-213(2001).
EMBL, EAROGOUST. RAB73507.1; -; Genomic_DNA.
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                                                                                                                                                  Score 38; DB 2; Length 48; Pred. No. 9.9; 2; Mismatches 2; Indels
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QBYWOB;
QBYCCOCC (TEMBLEC). 20, Last sequence update)
QBYWOCCOCC (TEMBLEC). 24, Last annotation update)
ALT1808 protein.
GrderedLocusNames=alr1808;
Anabaena sp. (Strain PCC 7120).
Bacteria; Cyanobacteria; Nostocaceae; Nostoc.
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Submitted (MAR-2005) to the EMBL/GenBank/DDBJ databases.
EMBL; AX809878; AAX25767.1; -; mRNA.
InterPro; IPR002563; Flv_red_FMN_bind.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Hypothetical protein. SEQUENCE 185 AA; 19909 MW; A82ABF7CA7CAE103 CRC64;
                                                                            48
5351 MW; 1F82FBA71EB35D87 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      10-MAY-2005 (TrEMBLrel. 30, Last sequence update) (POMAY-2005 (TrEMBLrel. 30, Last annotation update) Hypothetical protein. Schistosoma japonicum (Blood fluke).
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Bukaryota, Metazoa, Platyhelminthes; Trematoda; D
Schistosomatoidea; Schistosomatidae; Schistosoma.
                                                                                                                                                                                                                                                                                                                                                                                                                                 185 AA
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InterPro, IPR002798, DUF95_TM.
Pfam, PF01944; DUF95; 1.
                                                                                                                                                       69.1%;
60.0%;
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QSC3K8;
                                                                                                                                                  Query Match
Best Local Similarity 60.0
Matches 6; Conservative
Pfam; PF01040; UbiA; 1.
Hypothetical protein.
1 NON TER 48 48
SEQUENCE 48 AA; 5351 M
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Matches 7; Conservative
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SEQUENCE
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    KARATTARA KARATARA KA
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LY ALL SECOND J.Y., Kwon H.B.;

LY SUBCELLULAR LOCATION: Integral membrane protein (By similarity).

LY SUBCILULAR LOCATION: Integral membrane protein (By similarity).

LY SIMILARITY: Belongs to the G-protein coupled receptor 1 family.

EMBL: AZSOLIST: AZSOLISTS. IN RNA.

GO: GO: 0016021; C:integral to membrane; IEA.

GO: GO: 0004968; F:gonadotropin-releasing hormone receptor act. . .; IEA.

GO: GO: 0001807; F:receptor activity; IEA.

RO: GO: 0007186; P:G-protein coupled receptor protein signalin. .; IEA.

GO: GO: 0007186; P:G-protein coupled receptor protein signalin. .; IEA.

GO: GO: 0007186; P:G-protein coupled receptor protein signalin. .; IEA.

RO: GO: 0007186; P:G-protein coupled receptor protein signalin. .; IEA.

RO: GO: 0007186; P:G-protein coupled receptor protein signalin. .; IEA.

RO: GO: 0007186; P:G-protein coupled receptor protein signalin. .; IEA.

RITHERPRO: IPRO002069; GPCR. Rhodopsn.

RITHERPRO: IPRO00689; GPCR. Rhodopsn.

RITHERPRO: IPRO00689; GPCR. Rhodopsn.

RITHERPRO: IPRO00689; GPCR. Rhodopsn.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Rana ridibunda (Laughing frog) (Marsh frog).
Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Amphibia, Batrachia, Anura, Neobatrachia, Ranoidea, Ranidae, Rana,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gonadotropin releasing hormone receptor 2.
Rana dybowskii [Dybowsky a frog) (Korean brown frog).
Bukaryota; Metazoa; Glordata; Craniata; Vertebrata; Buteleostomi;
Amphibia; Batrachia; Anura; Neobatrachia; Ranoidea; Ranidae; Rana;
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PRINTS; PR00529; GNADOTRPHINR.
PROSITE; PR00237; GPROTEIN RECEP F1 1; 1.
PROSITE; PS50262; G_PROTEIN RECEP_F1_2; 1.
PROSITE; PS50300; SRP4; UNKNOWN 1.
G-protein coupled receptor; Receptor; Transducer; Transmembrane.
SEQUENCE 371 AA; 42185 MW; 5CC604568716B267 CRC64;
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                                                                           Score 38; DB 2; Length 318;
Pred. No. 72;
4; Mismatches 0; Indels
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318 AA; 35735 MW; 517EFCAB7C8EAE6B CRC64;
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01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
01-JUAR-2004 (TrEMBLrel. 26, Last annotation update)
GURH receptor 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              371 AA.
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                                                                               69.1%;
55.6%;
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Q7ZZP1;
                                                                       Query Match
Best Local Similarity 55.6
Matches 5; Conservative
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WQDPTFMSL 136
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WREPTFTA 36
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Best Local Similarity
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[1]
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SEQUENCE
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080000 RAN
1D 08000
DT 01-JU
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MEDLINE-2242598; PubMed=12538604; DOI=10.1210/en.2002-220683; Seong J.Y., Wang L., Oh D.Y., Yun O., Maiti K., Li J.H., Soh J.M., Sonng J.Y., Wang L., Oh D.Y., Yun O., Maiti K., Li J.H., Soh J.M., Atchi H.S., Kim K., Vaudry H., Kwon H.B.; Li J.H., Soh J.M., Ala/Thr(201) in extracellular loop 2 and Leu/Phe(290) in transmembrane domain 6 of type 1 frog gonadotropin-releasing hormone transduction."; Franschuction."; Endocrinology 144:454-466(2003).

1. SUBCELLULAR LOCATION: Integral membrane protein (By similarity).

1. SUBCELLULAR LOCATION: Integral membrane protein (By similarity).

2. SIMILARITY: Belongs to the G-protein coupled receptor 1 family. EMB.; AR23687; AAOS0196.2; -; mRNA.

30, GO:0004968; F:gonadotropin-releasing hormone receptor act. . .; IEA.

30, GO:0004968; F:gonadotropin-releasing hormone receptor act. . .; IEA.

30, GO:000186; P:gonadotropin-releasing hormone receptor act. . .; IEA.

30, GO:000186; P:gonadotropin-releasing hormone receptor act. . .; IEA.

30, GO:000186; P:gonadotropin-releasing hormone receptor act. . .; IEA.

30, GO:000186; P:gonadotropin-releasing hormone receptor act. . .; IEA.

30, GO:000186; P:gonadotropin-releasing hormone receptor act. . .; IEA.

31. HorerPro; IPR001058; GPCR Rhodgsn.

32. InterPro; IPR0010589; GPCR Rhodgsn.

33. InterPro; IPR0010689; Rhodgsn.

34. InterPro; IPR0010897; SRPS4.
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PRINTS; PR00529; GNADOTRPHINR.

PRINTS; PR00537; GPCRRHODOPSN.

PROSITE; PS00237; G_POTEIN RECEP_F1 1; 1.

PROSITE; PS00300; SRP54; UNKNOWN 1.

G-protein coupled receptor; Receptor; Transmembrane.
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Search completed: November 22, 2005, 19:18:54 Job time : 240 secs

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RESULT 2
US-09-904-923C-3
US-09-904-923C-3
Sequence 3, Application US/09904923C
Sequence 3, Application US/09904923C
Sequence 3, Application US/09904923C
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Adderson, W. French
APPLICANT: Ball, Frederick L.
APPLICANT: Gordon, Exlinda Maria
APPLICANT: Gordon, Exlinda Maria
APPLICANT: Gordon, Exlinda Maria
APPLICANT: Gordon, Exlinda Viral surface proteins for binding to extracellular matr
TILLE OF INVENTION: components
TITLE OF INVENTION: Components
TITLE OF INVENTION: Components
CURRENT APPLICATION NUMBER: US/09/904,923C
CURRENT FILING DATE: 2001-07-13
FRIOR APPLICATION NUMBER: US 08/837,223
NUMBER OF SEQ ID NOS: 8
                                                                                                                                                                                                                                             JS-09-127-134-1
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Sequence 2, Appli
Sequence 2, Appli
Sequence 2, Appli
Sequence 7326, Ap
Sequence 18496, A
Sequence 7350, Ap
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                                                                                                                                                                                                                                                                                                                                                                                 Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                       November 22, 2005, 19:08:51; Search time 46 Seconds (without alignments) 17:973 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 1, Apsequence 19, A Sequence 22, A Sequence 20, A Sequence 20, A Sequence 20, A Sequence 50, A
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Sequence 10,
Sequence 10,
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Sequence 4
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Sequence 2
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Copyright (c) 1993 - 2005 Compugen Ltd.
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US-09-904-923C-3
US-10-125-332-1
US-08-856-074A-29
US-08-856-074A-29
US-08-86-452-20
US-08-868-452-50
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US-08-868-452-50
US-09-868-498-2
US-09-132-652-2
US-09-132-652-2
US-09-252-991A-18496
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US-09-253-91A-18496
US-09-253-91A-18496
US-09-253-91A-1856-10
US-08-374-155A-10
US-08-374-155A-4
US-10-061-269-10
US-08-374-155A-4
US-10-061-269-10
US-08-374-155A-4
US-10-061-269-10
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US-09-252-991A-31805
                                                                                                                                                                                                Total number of hits satisfying chosen parameters:
                                                                                                                                                                            572060 seqs, 82675679 residues
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Maximum Match 100%
Listing first 45 summaries
                                       - protein search, using sw model
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Gapop 10.0 , Gapext 0.5
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Match Length
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Sequence 9550, Ap
Sequence 6, Appli
Sequence 4, Appli
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Sequence 1986, A
Sequence 1986, A
Sequence 6968, Ap
Sequence 8489, Ap
Sequence 729, Ap
Sequence 729, Ap
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Sequence 1, Application US/09127134

Patent No. 638763

GENERAL INFORMATION:
APPLICANT: Hall, Federick L
APPLICANT: Starnes, Vaughn A
APPLICANT: Starnes, Vaughn A
APPLICANT: Anderson, W. F
TITLE OF INVENTION: TARGETING PHARMACEUTICAL AGENTS TO INJURED TISSUES
FILE REFERENCE: 06666/019001
CURRENT PILING DATE: 1998-07-31
NUMBER OF SEQ ID NOS: 7
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 1
LENGTH: 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
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Sequence 2
Sequence 2
Sequence 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
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100.0%; Score 55; DB 2; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0004;
Matches 10; Conservative 0; Mismatches 0; Indels
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US-09-688-069-6
US-07-948-44
US-08-347-003-4
US-09-322-921A-19886
US-09-328-352-6968
US-09-328-352-6968
US-09-489-033A-8489
US-09-489-033A-8489
US-09-614-912-144
US-09-614-912-144
US-09-614-917-749
US-09-270-767-49843
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US-09-252-991A-25709
US-09-603-552-1
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ORGANISM: Artificial Sequence
PEATURE:
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44311
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COUNTRY: US
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                                                                                                                                                                                                                                                                                                                                                                                       Sequence 1, Application US/10125332
; Sequence 1, Application US/10125332
; Patent No. 6955898
; GENERAL INFORMATION:
; APPLICANT: Hall, Frederick L
; APPLICANT: Gordon, Erlinda M
; APPLICANT: Starnes, Vaughn A
; APPLICANT: Aderson, W. F
; TILLE OF INVENTION: TARGETING PHARMACEUTICAL AGENTS TO INJURED TISSUES
; FILE REFREENCE: 06666/10901
; CURRENT APPLICATION NUMBER: US/10/125,332
; CURRENT PLING DATE: 1998-07-31
; PRIOR FILING DATE: 1998-07-31
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 1

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6 Becker Farm Road
                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                ; FEATURE:
; OTHER INFORMATION: collagen-binding domain of von Willebrand Factor
US-09-904-923C-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             OTHER INFORMATION: Description of Artificial Sequence: Artificial OTHER INFORMATION: Decapeptide sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 100.0%; Score 55; DB 2; Length 10; Best Local Similarity 100.0%; Pred. No. 0.0004; Matches 10; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                               Query Match 100.0%; Score 55; DB 2; Length 10; Best Local Similarity 100.0%; Pred. No. 0.0004; Matches 10; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch diskette
COMPUTER: IBM PS/2
SOFTWARE: Patentin version 3.1
SEQ ID NO 3
LENGTH: 10
                                                        TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: PRT
ORGANISM: Artificial Sequence
PEATURE:
                                                                                                                                                                                                                                                                1 WREPSFMALS 10
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                                                                                                                                                                                                                                                                                                                                                              RESULT 3
US-10-125-332-1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM:
MEDIUM TYBE: 3.5 inch diskette
COMPUTER: 1BM PS/2
OPERATING SYSTEM: WINDOWS 95
SOFTWARE: Word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/856,074A
FILING DATE: 14-May-1997
CLASSIFICATION 536
PRIOR APPLICATION S36
PRIOR APPLICATION NUMBER:
                               CURENT APPLICATION DATA:
APPLICATION NUMBER: US/08/856,074A
FILING DATE: 14-May-1997
                                                                     FILING DATE: 14-May-1997
CLASSIFICATION: 536
PRIOR APPLICATION: 536
PRIOR APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Olstein, Elliot M.
REGISTRATION NUMBER: 24,025
REFERENCE/DOCKET NUMBER: 271
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECHONE: 973-994-1700
TELEFRAX: 973-994-1744
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Olstein, Elliot M.
REGISTRATION NUMBER: 24,025
REPERENCE/DOCKET NUMBER: 271
TELECOMMUNICATION INFORMATION:
TELEPHONE: 973-994-1701
OPERATING SYSTEM: WINDOWS 95
SOFTWARE: Word 97
                                                                                                                                                                                                                                                                                 TELEFAX: 973-994-1744
INFORMATION FOR SEQ ID NO: 19:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                             LENGTH: 16 amino acids
TYPE: amino acid
STRANDEDMESS:
TOPOLOGY: linear
MOLECULE TYPE: polypeptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           973-994-1744
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STATE: New Jersey
COUNTRY: USA
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APPLICANT: Marcel E. Nimni
APPLICANT: Frederick L. Hall
APPLICANT: Lingtao Wu
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1 WREPSFMAL 9
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Best Local Similarity
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Best Local Similarity
Matches 9; Conserv
                                                                                                                                                                                                                             TYPE: PRT
CRGANISM: Human
US-08-868-452-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ORGANISM: Human
                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 8
US-08-868-452-51
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-08-868-452-51
                                                                                                                                                                                                  SEQ ID NO 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: PRT
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Best Local Similarity 100.0%; Pred. No. 0.00068;
Matches 10; Conservative 0; Mismatches 0: Indela
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          92.7%; Score 51; DB 1; Length 9; 100.0%; Pred. No. 4.6e+05; tive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CUUNTER: CALLLYLING
ZIP: 90025-3395

COMPUTER READBALE PCRM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC COMPACTIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PACENTIN Release #1.0, Version #1.30
CUBRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/470,837
FILING DATE:
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Sharp, Janice A.
REGISTRATION NUMBER: 34,051
REFERENCE/DOCKET NUMBER: 30630-1US01
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELEPHONE: 310-465-1140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 7
US-08-868-452-20
; Sequence 20, Application US/08868452C
; Patent No. 6352972
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELEFAX: 310-445-9031
INFORMATION FOR SEQ ID NO: 20:
SEQUENCE CHARACTERISTICS:
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: polypeptide
US-08-856-074A-22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity 100.
Matches 9; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-470-837-20
                                                                                                                                                    1 WREPSFMALS 10
                                                                                                                                                                            WREPSFMALS 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CITY: Los Angeles
STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      amino acid
                                                                                                                                                                                                                             RESULT 6
US-08-470-837-20
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APPLICANT: Editors No. 1811

APPLICANT: Status Shore Stat
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Sequence 2, Application US/09132652
Patent No. 6074832
GENERAL INFORMATION:
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US-09-886-900A-2
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Patent No. 6040143

GENERAL INFORMATION:
APPLICANT: Venta, Patrick J
APPLICANT: Venta, Patrick J
APPLICANT: Schall, William D
APPLICANT: Brewer, George J
TITLE OF INVENTION: DNA ENCODING CANINE VON WILLEBRAND
TITLE OF INVENTION: PACTOR AND METHODS OF USE
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESSEE: Harness, Dickey & Pierce, P.L.C.
STREET: 5445 Corporate Drive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             81.8%; Score 45; DB 2; Length 2813;
80.0%; Pred. No. 17;
tive 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                     Length 9;
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CONFUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
CURRENT APPLICATION NUMBER: US/08/896,449A
FILING DATE: 18-UUL-1997
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Smith, DeAnn F.
REFERENCE/DOCKET NUMBER: 2115-001226
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION INFORMATIO
                                                                                                                                                                                                                                                                                                                                                                                 81.8%; Score 45; DB 2; 188.9%; Pred. No. 4.6e+05;
                                                                                                                                                                                                                                                                                                                                                                                                                                                        0; Mismatches
CURRENT APPLICATION NUMBER: US/08/868,452C
CURRENT FILING DATE: 1997-06-03
NUMBER OF SEQ ID NOS: 51
SOFTWARE: PastSEQ for Windows Version 3.0
SEQ ID NO 50 '
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity 80.0
Matches 8; Conservative
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Matches 8; Conservative
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COUNTRY: USA
                                                                                                                                                                                                                                                                    ORGANISM: Human
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US-08-896-449A-2
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RESULT 11 US-09-132-652-2

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JOSTONE 2004.

SEQUENCE 2, Application US/09886900A

PATENT NO. 6767707

GENERAL INFORMATION:
APPLICANT: Venta, Patrick J.
APPLICANT: Venta, Patrick J.
APPLICANT: Vilma, Yuzbasiyan-Gurkan
APPLICANT: Schall, William D.
TITLE OF INVENTION: OF USE
TITLE OF INVENTION: OF USE
TITLE OF INVENTION: OF USE

FILE REPERENCE: UWV-1226CPPCUS
CURRENT APPLICATION NUMBER: US/09/866,900A

CURRENT APPLICATION NUMBER: US/09/662,478C

PRIOR APPLICATION NUMBER: O9/132,652

PRIOR FILING DATE: 1999-08-11

PRIOR FILING DATE: 1999-08-11

PRIOR FILING DATE: 1999-08-10

SEQ ID NO 2

LENGTH: 2813
APPLICANT: Venta, Patrick J
APPLICANT: Yuzbasiyan-Gurkan, Vilma
APPLICANT: Yuzbasiyan-Gurkan, Vilma
APPLICANT: Yuzbasiyan-Gurkan, Vilma
APPLICANT: Brewer, George J
APPLICANT: Duffendeck, John
TITLE OF INVENTION: DNA ENCODING CANINE VON WILLEBRAND FACTOR AND METHODS
TITLE OF INVENTION: OF USE
TITLE OF INVENTION: OF USE
FILE REFERENCE: 2115S-001226CPB
CURRENT FILING DATE: 1998-08-11
EARLIER APPLICATION NUMBER: 08/896,449
EARLIER FILING DATE: 1997-07-18
NUMBER OF SEO ID NOS: 29
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 2
LENGTH: 2813
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Pred. No. 17;
0; Mismatches
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US-09-662-478C-2
'Sequence 2, Application US/09662478C'
'Patent No. 6780583
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Best Local Similarity 80.0%;
Matches 8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                 TYPE: PRT ORGANISM: Canis familiaris
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORGANISM: Canis familiaris
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Matches 8; Conservative
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US-09-252-991A-18496

Sequence 18496, Application US/09252991A

Sequence 18496, Application US/09252991A

Sequence 18496, Application US/09252991A

Sequence 18496, Application US/09252991A

GENERAL INFORMATION:

APPLICANT: Marc J. Rubenfield et al.

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS

TITLE OF INVENTION: NUMBER: US/09/252,991A

CURRENT APPLICATION NUMBER: US/09/252,991A

CURRENT PELING DATE: 1999-02-18

PRIOR FILING DATE: 1998-02-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 7326, Application US/09489039A
Facent No. 6610836
GENERAL INFORMATION:
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
TITLE OF INVENTION: NUCLEIC ACID AND THERAPEUTICS
TITLE OF INVENTION: NUMBER: US/09/489,039A
CURRENT APPLICATION NUMBER: US/09/489,039A
CURRENT FILING DATE: 1999-01-27
PRIOR FILING DATE: 1999-01-29
NUMBER OF SEQ ID NOS: 14342
LENGTH: LENGTH: 211
GENERAL INFORMATION:

APPLICANT: Venta, Patrick J.

APPLICANT: Brewer, George J.

APPLICANT: Vilma, Yuzbasiyan-Gurkan
APPLICANT: Schall, William D.

TITLE OF INVENTION: DA ENCODING CANINE VON WILLEBRAND FACTOR AND METHODS;
TITLE OF INVENTION: OF USE
FILE REFERENCE: UN-1226CPPCUS
CURRENT APPLICATION NUMBER: US/09/662,478C

CURRENT APPLICATION NUMBER: US/09/15

PRIOR FILING DATE: 1998-08-11

PRIOR FILING DATE: 1998-08-11

PRIOR FILING DATE: 1999-08-10

NUMBER OF SEQ ID NOS: 29

NUMBER OF SEQ ID NOS: 29
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                81.8%;
80.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: PRT ORGANISM: Canis familiaris
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Best Local Similarity 70.0°
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642 WREPGFCALS 651
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US-09-489-039A-7326
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LENGTH: 2813
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. LOCATION: (20); OTHER INFORMATION: Identity of amino acid at the above locations are unknown.
US-09-252-991A-18496
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                                                                                                                                                                                                                                                                70.9%; Score 39; DB 2; Length 188; 66.7%; Pred. No. 11; 1. Indels iive 2; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Search completed: November 22, 2005, 19:19:50 Job time : 53 secs
PRIOR APPLICATION NUMBER: US 60/094,190 PRIOR FILING DATE: 1998-07-27 NUMBER OF SEQ ID NOS: 33142 SEQ ID NO 18496 LENGTH: 188 TYPE: PRT ORGANISM: Pseudomonas aeruginosa FEATURE:
                                                                                                                                                                                                                                                                                      Best Local Similarity 66.7
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                              127 WSEPTFMSL 135
                                                                                                                                                                                                                                                                                                                                                      1 WREPSFMAL 9
                                                                                                                                                              NAME/KEY: UNSURE
                                                                                                                                                                                                                                                                     Query Match
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US-09-904-923B-3
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US-10-125-332-1
RESULT 1
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Sequence 1, Appli
Sequence 1, Appli
Sequence 4, Appli
Sequence 9, Appli
Sequence 1, Appli
Sequence 1, Appli
Sequence 12, Appli
Sequence 2, Appli
Sequence 166163, Sequence 166163, A
Sequence 22053, A
Sequence 14, Appl
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4, Appli
4, Appli
4, Appli
459, App
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                                                                                                       November 22, 2005, 19:11:51; Search time 166 Seconds (without alignments) 25.170 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Description
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Sequence 1
Sequence 4
Sequence 4
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                                                                                                                                                                                                                                                                                                                                                                                                                                                              Published Applications AA Main: * /cgn2_6/ptodata/1/pubpaa/USO7_PUBCOMB.pep: * : /cgn2_6/ptodata/1/pubpaa/USO8_PUBCOMB.pep: * : /cgn2_6/ptodata/1/pubpaa/USO8_PUBCOMB.pep: * : /cgn2_6/ptodata/1/pubpaa/USO8_PUBCOMB.pep: * : /cgn2_6/ptodata/1/pubpaa/USOB_PUBCOMB.pep: * : /cgn2_6/ptodata/1/pubpaa/USIOB_PUBCOMB.pep: * : /cgn2_6/ptodata/1/pubpaa/USIOB_PUBCOMB.pep: * : /cgn2_6/ptodata/1/pubpaa/USII_PUBCOMB.pep: *
              GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-09-925-302-459
US-09-925-302-459
                                                                                                                                                                                                                                                                                    1867569 seqs, 417829326 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                             Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                          protein search, using sw model
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Gapop 10.0 , Gapext 0.5
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Maximum DB seq length: 200000000
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Match Length
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                          Sequence 1156, Ap
Sequence 1, Appli
Sequence 79, Appl
Sequence 119, App
Sequence 1155, Ap
Sequence 213174,
Sequence 213174,
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Sequence 52310, A
Sequence 117783,
Sequence 11476, A
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52310, A
117783,
71188, A
1, Appli
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Sequence 1, Application US/10125332

Publication No. US20020164719A1

GENERAL INFORMATION:

APPLICANT: Hall, Frederick L

APPLICANT: Starnes, Vaughn A

APPLICANT: Starnes, Vaughn A

TITLE OF INVENTION: TARGETING PHARMACEUTICAL AGENTS TO INJURED TISSUES

FILE REFRERENCE: 06666/019001

CURRENT APPLICATION NUMBER: US/10/125,332

CURRENT FILING DATE: 1098-07-31

NUMBER OF SEQ ID NOS: 7

SOFFWARE: Patentin Ver. 2.0

SEQ ID NO 1

TYPE: PRIT
                                                                                                                                      Sequence 338761,
Sequence 359923,
Sequence 269053,
Sequence 248291,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; OTHER INFORMATION: collagen-binding domain of von Willebrand Factor
US-09-904-923B-3
             Sequence
Sequence
Sequence
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                                                   US-10-020-141-4
US-10-021-660-79
US-10-211-62-149
US-10-741-62-149
US-10-741-611-8
US-10-425-115-213174
US-10-425-115-3130761
US-10-425-115-269053
US-10-425-115-269053
US-10-425-115-269053
US-10-425-115-269053
US-10-47-774-1486
US-10-47-774-1486
US-10-47-963-117783
US-10-47-963-11476
                                        US-09-381-261A-1
                                                                                                                                                                                                                                                                             ALIGNMENTS
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466
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APPLICANT: Namni, Marcel

APPLICANT: Namni, Marcel

APPLICANT: Balt, Frederick

APPLICANT: Beart, Robert W.

APPLICANT: Gordon, Erlinda M.

TITLE OF INVENTION: TISSUE REGENERATION AND WOUND HEALING

FILE REFERENCE: 0666-042001

CURRENT APPLICATION NUMBER: US/10/733,852

CURRENT FILING DATE: 2003-12-10

PRIOR PELING DATE: 2001-08-30

PRIOR FILING DATE: 2001-08-30

PRIOR FILING DATE: 1999-07-21

NUMBER OF SEQ ID NOS: 12

SOFTWARE: FastSEQ for Windows Version 4.0

LENGTH: 10
                                                                                                                                                                                                                                                                                         Sequence 4, Application US/1082926

Sequence 4, Application US/1082926

Bublication No. US2004025315A1

GENERAL INFORMATION:
APPLICANT: Hall, Frederick L.
APPLICANT: Gordon, Erlinda M.
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING
TITLE OF INVENTION: DISCRIBERS
FILE REFERENCE: 14330-004001
CURRENT FILING DATE: 2004-04-21
PRIOR APPLICATION NUMBER: US 60/464,571
PRIOR RELING DATE: 2003-04-21
NUMBER OF SEQ ID NOS: 7
SOFTWARE: PastSEQ for Windows Version 4.0
SEQ ID NO 4
LENGTH: 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       100.0%; Score 55; DB 5; Length 10; 100.0%; Pred. No. 0.004; ive 0; Mismatches 0; Indels
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Best Local Similarity 100.0%; Pred. No. 0.004;
Matches 10; Conservative 0; Mismatches 0; Indels
                                                100.0%; Score 55; DB 4; Length 10; 100.0%; Pred. No. 0.004;
                                                                                              0; Indels
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Matches 10; Conservative
                                                Query Match 100.
Best Local Similarity 100.
Matches 10; Conservative
                                                                                                                                            1 WREPSFMALS 10
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ORGANISM: Bos taurus
                                                                                                                                                                                                                                                                                    US-10-829-926-4
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    US-10-404-714-1
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APPLICANT: Hall, Frederick L.
APPLICANT: Gordon, Erlinda Maria
APPLICANT: Anderson, W. French
TITLE OF INVENTION: Retroviral Vectors Including Modified Envelope Escort Proteins
FILE REFERENCE: 4-3066B
CURRENT APPLICATION NUMBER: US/10/223,599
CURRENT FILING DATE: 2000-08-19
PRIOR FILING DATE: 2000-10-27
PRIOR FILING DATE: 1999-04-28
PRIOR FILING DATE: 1999-04-28
PRIOR FILING DATE: 1998-04-28
PRIOR FILING DATE: 1998-04-28
PRIOR FILING DATE: 1998-04-29
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Fublication No. US20030157078A1

GENERAL INFORMATION:

TITLE OF INVENTION: IDENTIFICATION OF A PLURIOPOTENT

TITLE OF INVENTION: PRE-MESENCHYMAL, PRE-HEWATOPOIETIC PROGENITOR CELL

FILE REFERENCE: 06666-041001

CURRENT APPLICATION NUMBER: US/10/404,714

CURRENT FILING DATE: 2003-03-31

PRIOR FILING DATE: 2000-07-20

PRIOR FILING DATE: 1999-07-19

NUMBER OF SEQ ID NOS: 3

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO 1

LENGTH: 10
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                          FEATURE:
COTHER INFORMATION: Description of Artificial Sequence: Artificial
FOTHER INFORMATION: Decapeptide sequence
US-10-125-332-1.
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                                                                                                                                          Query Match 100.0%; Score 55; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.004;
Matches 10; Conservative 0; Mismatches 0; Indels
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100.0%; Pred. No. 0.004;
tive 0; Mismatches 0; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NUMBER OF SEQ ID NOS: 15
SOFWHARE: Patentin version 3.1
SEQ ID NO 7
LENGTH: 10
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Best Local Similarity 100.
Matches 10; Conservative
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ORGANISM: Homosapien
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: PRT
ORGANISM: Unknown
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US-10-223-599-7
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US-10-404-714-1
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APPLICANT: Nami, Marcel
APPLICANT: Nami, Marcel
APPLICANT: Nami, Marcel
APPLICANT: Beart, Robert
Extinda M.
TITLE OF INVENTION: USSUE REGENERATION AND WOUND HEALING
FILE REFERENCE: 06666-102001
CURRENT APPLICATION NUMBER: US/09/624,874
PRIOR FILING DATE: 2001-08-30
PRIOR PELING DATE: 1999-07-21
NUMBER OF SEQ ID NOS: 12
NUMBER OF SEQ ID NOS: 12
SOFTWARE: FastESEQ for Windows Version 4.0
LENGTH: 17
                                                                                        Sequence 1, Application US/10829926
| Publication No. US20040253215A1
| GENERAL INFORMATION:
| APPLICANT: Hall, Frederick L.
| APPLICANT: Gordon, Erlinda M.
| TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING;
| TITLE OF INVENTION: DISORDERS
| FILE REFERENCE: 14230-004001
| CURRENT APPLICATION NUMBER: US/10/829,926
| CURRENT FILING DATE: 2004-04-21
| PRIOR APPLICATION NUMBER: US 60/464,571
| PRIOR FILING DATE: 2003-04-21
| WINDER OF SEQ ID NOS: 7
| SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 49; DB 5; Length 15;
Pred. No. 0.072;
0; Mismatches 1; Indels
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Pred. No. 0.081;
0; Mismatches 1; Indels
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Publication No. US20050037469A1
GENERAL INFORMATION:
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; Patent No. US20020137051A1
; GENERAL INFORMATION:
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90.0%;
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Best Local Similarity 90.0
Matches 9; Conservative
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Best Local Similarity 90.0
Matches 9; Conservative
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ORGANISM: BOS taurus
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US-09-886-900-2
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LENGTH: 15
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                                                                                                                                 Sequence 9, Application US/10223599
Publication No. US20030129163A1
GENERAL INFORMATION:
APPLICANT: Holder Maria
APPLICANT: Gordon, Erlinda Maria
APPLICANT: Anderson, W. French
TITLE OF INVENTION: Retroviral Vectors Including Modified Envelope Escort Proteins
FILE REFERENCE: 4-30666B
CURRENT APPLICATION NUMBER: US/10/223,599
CURRENT FILING DATE: 2002-08-19
PRIOR FILING DATE: 2000-10-27
PRIOR PLING DATE: 1999-04-28
PRIOR PLING DATE: 1999-04-28
PRIOR PLING DATE: 1998-04-29
NUMBER OF SEQ ID NOS: 15
SOFTWARE: PatentIn version 3.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; OTHER INFORMATION: polypeptide shown in Example 1 including the collagen binding dom ; OTHER INFORMATION: ain and linkers.
US-10-223-599-9
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; Publication No. US2004025315A1
; GENERAL INFORMATION:
; APPLICANT: Hall, Frederick L.
; APPLICANT: Hall, Frederick L.
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING;
; TITLE OF INVENTION: DISORDERS
; FILE REFERENCE: 1230-004001
; CURRENT APPLICATION NUMBER: US/10/829,926
; CURRENT FILING DATE: 2004-04-21
; RIOR PILING DATE: 2004-04-21
; NUMBER: OF SEQ ID NOS: 7
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 7;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    100.0%; Score 55; DB 4; Length 16; 100.0%; Pred. No. 0.0062; tive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 100.0%; Score 55; DB 5; Length 16; Best Local Similarity 100.0%; Pred. No. 0.0062; Matches 10; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; OTHER INFORMATION: synthetically generated peptide US-10-829-926-7.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    10; Conservative
1 WREPSFMALS 10
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: PRT
ORGANISM: Unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQ ID NO 9
LENGTH: 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
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Sequence 251936, Application US/10424599
Fublication No. US20040031072A1
GENERAL INFORMATION:
APPLICANT: La Rosa Thomas J
APPLICANT: La Rosa Thomas J
APPLICANT: La Rosa Thomas J
APPLICANT: APPLICANT: About Yihua
APPLICANT: Cao Yongwei
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21 (53231)B
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 285684
SEQ ID NO 251936
LIENGTH: 72
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-10-424-599-166163

US-10-424-599-166163

Sequence 166163, Application US/10424599

Sequence 166163, Application US/10424599

Publication No. US20040031072A1

GENERAL INFORMATION:

APPLICANT: La Rosa Thomas J

APPLICANT: Zhou Yihua

APPLICANT: Cao Yongwei

TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With

TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement

TITLE OF UNERNIT APPLICATION NUMBER: US/10/424,599

CURRENT APPLICATION NUMBER: US/10/424,599

CURRENT FILING DATE: 2003-04-28

NUMBER OF SEQ ID NOS: 285684

SEQ ID NO 166163

LENGTH: 289
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 72;
                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
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US-10-424-599-166163
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FEATURE:
CTHER INFORMATION: Clone ID: PAT_MRT3847_69525C.1.pep
US-10-424-599-251936
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OTHER INFORMATION: unsure at all Xaa locations
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 39; DB 4
Pred. No. 21;
1; Mismatches
      Pred. No. 0.4;
0; Mismatches
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      80.08;
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Best Local Similarity 70.v.
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Best Local Similarity 70.0
Matches 7; Conservative
      Best Local Similarity 80.0
Matches 8; Conservative
                                                                                                 1 WREPSFMALS 10
                                                                                                                                                      1 WREPSFAMLS 10
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ORGANISM: Glycine max
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NAME/KEY: unsure
LOCATION: (1)..(7
                                                                                                                                                                                                                                             RESULT 13
US-10-424-599-251936
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Publication No. US20040167088A1

GENERAL INFORMATION:
GENERAL INFORMATION:
THOMAS J
APPLICANT: WICKLAM, MASAKI

TITLE OF INVENTION: METHOD OF USING ADENOVIRAL VECTORS WITH INCREASED PERSISTENCE IN FILE REFERENCE: 220933
CURRENT APPLICATION WIMBER: US/10/374,271
CURRENT PELING DATE: 2003-02-25
NUMBER OF SEQ ID NOS: 5
SOFTWARE: PATENTIN VERSION 3.1
SEQ ID NO 4
SEQ 
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Pred. No. 54;
0; Mismatches 2; Indels
APPLICANT: Venta, Patrick J
Yuzbasiyan-Gurkan, Vilma
Schall, William D
Brewer, George J
TITLE OF INVENTION: PACTOR AND METHODS OF USE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       80.0%; Score 44; DB 4; Length 10;
                                                                                                                                                                                                                                                                                                                                                                                       ZIP: 48098
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
                                                                                                                                                                                                                 CORRESPONDENCE ADDRESS:
ADDRESSEE: Harness, Dickey & Pierce, P.L.C.
STREET: 5445 Corporate Drive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NAME: Smith, Deadin F.
REFERENCE/DOCKET NUMBER: 2115-001226
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/886,900
FILING DATE: 21-JUN-2001
CLASSIPICATION: <UNKNOWN>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/896,449
FILING DATE: 18-JUL-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 2:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 2813 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELEPHONE: 248-641-1600
TELEFAX: 248-641-0270
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 81.8%;
80.0%;
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OTHER INFORMATION: Synthetic US-10-374-271-4
                                                                                                                                                                                        NUMBER OF SEQUENCES: 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity 80.0
Matches 8; Conservative
                                                                                                                                                                                                                                                                                                                                     STATE: Michigan
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             642 WREPGFCALS 651
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-09-886-900-2
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US-10-374-271-4
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RESULT 15

US-10-425-115-198512

Sequence 198512, Application US/10425115

Schulterion No. US20040214272A1

GENERAL INFORMATION:

APPLICANT: La Rosa, Thomas J.

APPLICANT: Zhou, Yihua

APPLICANT: Zhou, Yihua

APPLICANT: Cao, Yongwei

TITLE OF INVENTION: Nacleic Acid Molecules and Other Molecules Associated With

TITLE OF INVENTION: Plants

FILE REPERENCE: 38-21(53222)

CURRENT FILING DATE: 2003-04-28

NUMBER OF SEQ ID NOS: 369326

SEQ ID NO 198512

LENTH: 43

LENTH: 43
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0; Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; TYPE: PRT; ORGANISM: Zea mays; FEATURE: ; CHER INFORMATION: Clone ID: MRT4577_112619C.1.pep US-10-425-115-198512
245 WRESTFOALS 254
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Search completed: November 22, 2005, 19:23:20 Job time : 167 secs

1 WREPSFMALS 10

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us-10-733-852-1.rapbm

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Sequence

Appl Appli Appli 8, App Appl 6, App Appl Appl Appl

Sequence Seq

Sequence Sequence Sequence

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APPLICANT: Hall, Frederick L.
APPLICANT: Gordon, Erlinda M.
TITLE OF INVENTION: TARGETED GENE DELIVERY TO EXTRACELLULAR MATRIX
FILE REFERENCE: 30863-704,302
CURRENT APPLICATION NUMBER: US/11/014,629
CURRENT APPLICATION NUMBER: US/08/37,223
PRIOR PILING DATE: 1997-04-10
PRIOR PILING DATE: 1997-04-10
PRIOR FILING DATE: 2001-07-13
NUMBER OF SEQ ID NOS: 8
SOFTWARE: Patentin Version 3.1
LENGTH: 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; OTHER INFORMATION: Collagen-binding domain of von Willebrand Factor US-11-014-629-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 55; DB 7; 1
Pred. No. 5.1e-06;
US-10-630-203-6
US-11-082-389-60
US-11-154-865-210
US-11-108-389-30
US-11-109-156-31
US-11-018-018-7
US-10-018-018-7
US-10-018-7
US-10-02-562-216
US-11-021-563-8
US-11-057-058-61
US-11-057-058-61
US-11-057-058-61
US-11-057-058-61
US-10-0503-575-139
US-10-503-575-139
                                                                                                                                                                 US-10-828-033-33
US-10-986-501-222
US-11-065-669-5
                                                                                                                                                                                               US-11-010-954-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0; Mismatches
                                                                                                                                                                                                                              ALIGNMENTS
                                                                                                                                                                                                                                                                               Sequence 3, Application US/11014629; Publication No. US20050244376A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
100.0%;
Best Local Similarity 100.0%;
Matches 10; Conservative 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: PRT
ORGANISM: Artificial Sequence
   10
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  US-10-816-768-104
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 424, A
Sequence 172, A
Sequence 103, A
Sequence 464, A
Sequence 362, A
Sequence 15, A
Sequence 16, A
                                                                    ; Search time 7 Seconds
(without alignments)
1.614 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Description
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Sequence 2
Sequence 3
                                                                                                                                                                                                                                                                                                Published Applications AA New:*

1: /cgn2_6/ptodata/1/pubpaa/US10 NEW PUB.pep:*
2: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep:*
3: /cgn2_6/ptodata/1/pubpaa/US07 NEW PUB.pep:*
4: /cgn2_6/ptodata/1/pubpaa/US09 NEW PUB.pep:*
5: /cgn2_6/ptodata/1/pubpaa/US09 NEW PUB.pep:*
7: /cgn2_6/ptodata/1/pubpaa/US1 NEW PUB.pep:*
7: /cgn2_6/ptodata/1/pubpaa/US1 NEW PUB.pep:*
8: /cgn2_6/ptodata/1/pubpaa/US1 NEW PUB.pep:*
8: /cgn2_6/ptodata/1/pubpaa/US1 NEW PUB.pep:*
          GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
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US-10-816-768-104

US-10-816-768-104

US-10-816-768-108

US-11-082-389-328

US-11-180-997-4

US-11-132-285-2

US-11-132-285-2

US-11-132-285-2

US-11-132-285-2

US-11-132-285-40

US-11-132-285-40

US-11-132-285-40

US-11-132-285-10

US-11-132-285-10

US-11-131-826A-424

US-11-689-103

US-11-689-103

US-11-074-176-254

US-11-074-176-254

US-11-074-176-254

US-11-074-176-254

US-11-074-176-254

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                                                                                                                                                                                                                                                                                                                                                                                                                                                  SUMMARIES
                                                                     November 22, 2005, 19:15:02
                                                                                                                                                                                                                                                         Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                  OM protein - protein search, using sw model
                                                                                                                                                                                    8323 segs, 1129788 residues
                                                                                                                                                     BLOSUM62
Gapop 10.0 , Gapext 0.5
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Maximum DB seq length: 2000000000
                                                                                                           US-10-733-852-1
55
                                                                                                                                1 WREPSFMALS 10
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Match 1
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Gaps

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Result Š

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Query Match
Best Local Similarity 100.
Matches 10; Conservative
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US-10-816-768-89
                   1 WREPSFMALS 10
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     35 WREPSFMALS 44
                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: PRT
ORGANISM: Homo sapiens
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                                                                                                                                                                                                                                                                                                                                                      | Sequence 106, Application US/10816768
| Publication No. US20050250936A1
| GENERAL INFORMATION:
| APPLICANT: Tai, Mei-Sheng
| APPLICANT: Tai, Mei-Sheng
| APPLICANT: McCartney, John
| TITLE OF INVENTION: Modified TGF-beta Superfamily Proteins
| FILE REFERENCE: STK-075
| CURRENT APPLICATION NUMBER: US/10/816,768
| CURRENT FILING DATE: 2004-04-02
| NUMBER OF SEQ ID NOS: 124
| SOFTHARE: Patentin version 2.0
| SEQ ID NO 106
| LENGTH: 56
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-10-816-768-108

Sequence 108, Application US/10816768

Publication No. US20050250936A1

GENERAL INFORMATION:
APPLICANT: Oppermann, Hermann
APPLICANT: Mcd-Sheng
TITLE OF INVENTION: Modified TGF-beta Superfamily Proteins
FILE REFERENCE: STK-075

CURRENT APPLICATION NUMBER: US/10/816,768

CURRENT PILING DATE: 2004-04-02

NUMBER OF SEQ ID NOS: 124

SOCTUMER: PatentIn version 2.0

SEQ ID NO 108

LENGTH: 64
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Best Local Similarity 100.0%; Pred. No. 2.6e-05;
Matches 10; Conservative 0; Mismatches 0; Indels
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100.0%; Score 55; DB 1; Length 64;
Best Local Similarity 100.0%; Pred. No. 3e-05;
Matches 10; Conservative 0; Mismatches 0; Indels
                                                                                                                                                    100.0%; Score 55; DB 1; Length 43; 100.0%; Pred. No. 2e-05;
                                                                                                                                                                                            0; Indels
                                                                                                                                                                                          0; Mismatches
                                                                                                                                          Query Match
Best Local Similarity 100.
                                                                                       OTHER INFORMATION: H2510
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US-10-816-768-106
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US-10-816-768-108
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                                                                                                                                                                                                                                                     27 WREPSFMALS 36
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ORGANISM: Homo sapiens
                                     TYPE: PRT ORGANISM: Homo sapiens FEATURE:
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ORGANISM: Homo sapiens
                                                                                                            US-10-816-768-104
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US-10-816-768-106
SEQ ID NO 104
LENGTH: 43
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UB-10-816-766-89

UB-10-816-76
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68 WREP 71
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  Matches
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APPLICANT: Jacobs, Kenneth
APPLICANT: Accoy, John M
APPLICANT: Evans, Lisa A
APPLICANT: Evans, Cheryl
APPLICANT: Evans, Cheryl
APPLICANT: Evans, Cheryl
APPLICANT: Treacy, Maurice
APPLICANT: Spaulding, Vikki
TITLE OF INVENTION: SERRETED PROTEINS AND POLYNUCLEOTIDES ENCODING THEM
TITLE OF INVENTION: SERRETED PROTEINS AND POLYNUCLEOTIDES ENCODING
TITLE OF INVENTION NUMBER: US/10/689,742
CURRENT FILING DATE: 2000-110-22
PRIOR PELING DATE: 2000-12-21
NUMBER OF SEQ ID NOS: 231
SOFTWARE: PatentIn version 3.2
SOFTWARE: PatentIn version 3.2
TYPE: PRIOR PRIOR PATENTING DATE: 2000-12-21
NUMBER OF SEQ ID NOS: 231
SOFTWARE: PatentIn version 3.2
TYPE: PRIOR PATENTING DATE: 2000-12-21
SOFTWARE: PATENTING DATE: 2000-12-21
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Remaining Prior Application data removed - See File Wrapper or PALM. NUMBER OF SEQ ID NOS: 446 SEQ ID NO 328 LENGTH: 255
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 4, Application US/11180997
; Publication No. US20050250150A1
; GENERAL INFORMATION:
APPLICANT: ALZO NODEL Patent Department
; TITLE OF INVENTION: Lawsonia Intracellularis Vaccine
; FILE REFERENCE: 2000.605
; CURRENT APPLICANTON UNDER: US/11/180,997
; CURRENT APPLICANTON UNDER: US/11/180,997
; CURRENT FILING DATE: 2005-07-13
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 4
; LENGTH: 475
                                                                                                              ; TYPE: PRT
; ORGANISM: Corynebacterium glutamicum
US-11-082-389-328
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; Sequence 140, Application US/10689742; Publication No. US20050250180A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; ORGANISM: Lawsonia intracellularis
US-11-180-997-4
                                                                                                                                                                                                                             55.6%;
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Best Local Similarity 55.6
Matches 5; Conservative
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16 WQQSSFM 22
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Best Local Similarity
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US-11-074-176-6
  Matches
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APPLICANT: Wood, William
APPLICANT: Zhang, Semin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
TITLE OF INVENTION: ACIDS ENCODING THE SAME
FILE REFERENCE: P3330R1C128
CURRENT PILING DATE: 2002-04-24
RIOR APPLICATION NUMBER: 60/049911
RIOR PILING DATE: 1997-06-18
FRIOR FILING DATE: 1997-09-17
RIOR APPLICATION NUMBER: 60/059113
RRIOR APPLICATION NUMBER: 60/059115
RRIOR APPLICATION NUMBER: 60/059117
RRIOR APPLICATION NUMBER: 60/059117
RRIOR APPLICATION NUMBER: 60/059120
RRIOR FILING DATE: 1997-09-17
RRIOR PILING DATE: 1997-09-17
RRIOR PILING DATE: 1997-09-17
RRIOR PILING DATE: 1997-09-17
RRIOR RILING DATE: 1997-09-17
RRIOR RILING DATE: 1997-09-18
RRIOR RILING DATE: 1997-09-18
RRIOR RILING DATE: 1997-09-18
RRIOR RILING DATE: 1997-09-18
RRIOR RELING DATE: 1997-09-19
RRIOR PILING DATE: 1997-09-19
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Pred. No. 27;
                                                                                                                                                                      Query Match 50.9%; Score 28; DB 7; Length 1001; Best Local Similarity 100.0%; Pred. No. 69; Matches 4; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; Sequence 422, Application US/10131826A; Publication No. US20050245730A1; GENERAL INFORMATION:
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Filvaroff, Ellen
Gao, Wei-Qiang
Gerritsen, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Stewart, Timothy A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: DeForge, Laura
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Goddard, Audrey
Godowski, Paul J.
Gurney, Austin L.
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SOFTWARE: Patentin Ver. 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Smith, Victoria
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Tumas, Daniel
                                                                                       ORGANISM: Hômo sapiens
US-11-132-285-40
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; ORGANISM: Homo Sapien
US-10-131-826A-422
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US-10-131-826A-422
                     SEQ ID NO 40
LENGTH: 1001
                                                                          TYPE: PRT
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APPLICANT:
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APPLICANT: Alecran, Eric
APPLICANT: Acautan, Eric
APPLICANT: Peril, Andrea Azcarate
TITLE OF INVENTION: Nucleic Acid Sequences Encoding
TITLE OF INVENTION: Stress-Related Proteins and Uses Therefore
FILE REFERENCE: 5051-694
CURRENT APPLICATION NUMBER: US/11/074,176
CURRENT FILING DATE: 2005-03-07
PRIOR APPLICATION NUMBER: 60/551,161
PRIOR FILING DATE: 2004-03-08
NUMBER OF SEQ ID NOS: 381
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 6
LENOTH: 298
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Best Local Similarity 40.0%; Pred. No. 34;
Matches 4; Conservative 3; Mismatches 3; Indels
 Indels
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 2; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 6, Application US/11074176
Publication No. US20050250135A1
GENERAL INFORMATION:
APPLICANT: Klaenhammer, Todd R.
APPLICANT: Russell, William M.
                                                                                                                                                                                                                                                                                                                                                                               ; TYPE: PRT
; ORGANISM: Bacillus licheniformis
US-10-510-386-242
                                                                                                                                                                                                                                                                                                                                                                                                                                              49.1%;
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 6; Conservative
                            1 W-REPSEMALS 10
                                                         27 WSRRPLFLALA 37
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58 WQNPANMIMS 67
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195 EPNFVSIS 202
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Best Local Similarity
Matches 4; Conserv
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RESULT 14

Query Match Best Local Similarity

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TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
TITLE OF INVENTION: ACIDS ENCODING THE SAME
FILE REFERENCE: P3330R1G128
CURRENT APPLICATION NUMBER: US/10/131,826A
CURRENT FILING DATE: 2002-04-24
PRIOR APPLICATION NUMBER: 60/049911
PRIOR FILING DATE: 1997-06-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FRIOR FILING DATE: 1997-08-18
PRIOR PLING DATE: 1997-08-26
PRIOR FILING DATE: 1997-08-26
PRIOR PLING DATE: 1997-08-26
PRIOR PLING DATE: 1997-08-17
PRIOR FILING DATE: 1997-09-17
PRIOR FILING DATE: 1997-09-17
PRIOR PLING DATE: 1997-09-19
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Publication No. US20050250180A1
GENERAL INFORMATION:
APPLICANT: Jacobs, Kenneth
APPLICANT: MCCOy, John M
APPLICANT: Racie, Lisa A
APPLICANT: Evans, Cheryl
Sequence 424, Application US/10131826A Publication No. US20050245730A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                Stewart, Timothy A
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Goddard, Audrey
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Watanabe, Colin K
Wood, William
                                                                                                        Beresini, Maureen
DeForge, Laura
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Gurney, Austin L.
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Filvaroff, Ellen
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Smith, Victoria
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149 WKSPASLTMS 158
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Best Local Similarity
Matches 3; Conserv
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US-10-689-742-132
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APPLICANT: Treacy, Maurice
APPLICANT: Spaulding, Vikki
TITLE OF INVENTION: SERRETED PROTEINS AND POLYNUCLEOTIDES ENCODING THEM
FILE REFERENCE: 00766.000091.10
CURRENT APPLICATION NUMBER: US/10/689,742
CURRENT APPLICATION NUMBER: 09/746,783
PRIOR APPLICATION NUMBER: 09/746,783
PRIOR PILING DATE: 2000-12-21
NUMBER OF SEQ ID NOS: 231
SOFTWARE: Patentin version 3.2
SOFTWARE: Patentin version 3.2
LENGTH: 381
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Pred. No. 43;
1; Mismatches 2; Indels
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Job time : 8 secs
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Best Local Similarity 57.1%;
Matches 4; Conservative
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ORGANISM: Homo sapiens
US-10-689-742-172
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